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**Emotional intelligence in front-line/back-office employee relationships**

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## Emotional intelligence in front-line/back-office employee relationships

**Purpose**—This research undertakes a simultaneous assessment of interdependence in the behaviours of front-line and back-office employees and their joint effect on customer-related organizational performance. It also tests for a moderating influence of the emotional intelligence of front-line salespeople and back-office employees.

**Design/methodology/approach**—The sample comprises 105 front-line sales employees and 77 back-office employees. The customer-related organizational performance data come from a U.K. business-to-business (B2B) electronics company. With these triadic data, this study uses partial least squares to estimate the measurement and structural models.

**Findings**—Salespeople's customer orientation directly affects customer-related organizational performance; the relationship is moderated by salespeople's emotional intelligence. The emotional intelligence of salespeople also directly affects the customer-directed citizenship behaviour of back-office employees. Furthermore, the emotional intelligence of back-office staff moderates the link between the emotional intelligence of salespeople and back-office staff citizenship behaviour. Back-office staff citizenship behaviour in turn affects customer-related organizational performance.

**Originality/value**—The emotions deployed by employees in interactions with customers clearly shape customers' perceptions of service quality, as well as employee-level performance outcomes. But prior literature lacks insights into the simultaneous effects of front-line and back-office employee behaviour, especially in B2B settings. This article addresses these research gaps by investigating triadic relationships—among back-office employees, front-line employees and customer outcomes—in a B2B setting, where they are of particular managerial interest.

**Keywords**—citizenship behaviours, customer service employees, emotional intelligence, matched data, moderation, organizational performance

## Introduction

In both business-to-consumer (B2C) and business-to-business (B2B) contexts, boundary-spanning, front-line employees such as salespeople personally interact with customers and offer the visible face of the firm (Rupp *et al.*, 2007). In contrast, back-office employees perform functions separate from customers and remain largely invisible to them (Larsson and Bowen, 1989), despite contributing to superior customer experiences (Zomerdijk and Voss, 2010). Customer experience ‘refers to the customer’s perception of the service operations and processes’ (Hakanen and Jaakkola, 2012, p. 597), so it is shaped by the contributions and behaviours of both front-line and back-office employees. For many organizations, effectively aligning boundary-spanning and back-office activities is a necessary prerequisite for successful service delivery and customer satisfaction (Bowen and Schneider, 1985; Gounaris, 2008). Larsson and Bowen (1989, p. 222) even note that front-line employees ‘take in the customer’s specifications of the service, and it is performed by back-office employees’.

Despite the important, if indirect, contributions of back-office employees to customers’ service experience (Zomerdijk and Voss, 2010) and organizational performance, extant service research tends to focus solely on constructs that explain the attitudes and behaviour of front-line employees. Research in the B2C field thus proposes several potential antecedents of organizational performance, such as front-line employees’ customer orientation (Brach *et al.*, 2015; Brown *et al.*, 2002; Hennig-Thurau and Thurau, 2003), emotional labour (Groth *et al.*, 2009; Walsh and Bartikowski, 2013) or emotional intelligence (Kidwell *et al.*, 2011; McFarland *et al.*, 2016; Rozell *et al.*, 2004). But constructs from a B2C setting might not extend to B2B professional service settings, where firm–customer relationships differ notably from those involving traditional, consumer end-users. In end-user markets, consumers typically interact with salespeople on a personal, regular basis and spend their own money.

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3 Conversely, organizational customers and providers often interact indirectly and  
4 impersonally, with purchases made with company funds (Von Nordenflycht, 2010; Walsh *et*  
5 *al.*, 2015). Salespeople and their customers might interact less regularly in the B2B field, yet  
6 the quality of their relationships often is higher than in B2C settings, such as retailing or fast  
7 food (e.g., Mudambi, 2002; Rauyruen and Miller, 2007; Wagner and Boutellier, 2002). In  
8 addition, emotions can facilitate these transactions (Andersen and Kumar, 2006), such that  
9 B2B firms need emotionally intelligent employees to be able to ensure customer satisfaction  
10 and loyalty, as well as ultimate performance outcomes.

20 Emotional intelligence is ‘the ability or tendency to perceive, understand, regulate, and  
21 harness emotions adaptively in the self and in others’ (Schutte *et al.*, 2001, p. 523). It is  
22 positively associated with customer satisfaction, repurchasing intentions, word of mouth  
23 (Boxer and Rekettye, 2011; Kernbach and Schutte, 2005) and employee performance  
24 (Kidwell *et al.*, 2011; Sy *et al.*, 2006). A wealth of research thus investigates front-line  
25 employees’ emotional intelligence and relevant downstream variables, though three elements  
26 appear missing. First, with a focus on front-line employees and a within-person view, most  
27 research considers antecedents or personal consequences of front-line employees’ own  
28 emotional intelligence, such as how it might drive individual job satisfaction, commitment or  
29 performance (Kidwell *et al.*, 2011; McFarland *et al.*, 2016). Such an approach cannot explain  
30 the full contribution of salespeople’s emotional intelligence to firm outcomes though, given  
31 the potential for the reciprocal interpersonal influence of emotional intelligence. A front-line  
32 employee’s emotional intelligence can create a ripple effect, triggering a flow of emotions to  
33 another person that affects that other party’s behaviour (Barsade, 2002; Hareli and Rafaeli,  
34 2008; Hennig-Thurau *et al.*, 2006) and thus overall organizational performance. This effect is  
35 well acknowledged in employee–customer exchanges (Delcourt *et al.*, 2013) and supervisor–  
36 subordinate contexts (McFarland *et al.*, 2016; Sy *et al.*, 2006; Wong and Law, 2002); it rarely  
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3 has been assessed among co-workers. The present research therefore investigates whether  
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5 front-line employees' emotional intelligence affects the behaviour of their peers who work in  
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7 the back office.  
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10 Second, though front-line employees' emotional intelligence has been linked to relevant  
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12 downstream variables, such as job satisfaction and emotional labour (e.g., Johnson and  
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14 Spector, 2007; Prentice *et al.*, 2013), the extent and the manner by which back-office staff's  
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16 emotional intelligence contributes to organizationally relevant outcomes remains unclear,  
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18 especially in terms of customer-related organizational performance. Back-office employees'  
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20 work may not entail face-to-face contact with customers, but they play a critical role in  
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22 service delivery; they even might communicate with customers via telephone, e-mail or  
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24 social media (Korczynski, 2004; Peppard, 2000). Front-line employee emotional intelligence  
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26 and back-office employee emotional intelligence seemingly might interact to predict  
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28 outcomes, in a relationship that could be either complementary or substitutive (Chun *et al.*,  
29  
30 2010; Sy *et al.*, 2006). Answering such questions can help highlight whether and how the  
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32 emotional intelligence of back-office staff contributes to firm outcomes and thus provide  
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34 guidance for managing both front-line and back-office employees.  
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39 Third, various studies note a moderating role of emotional intelligence and provide  
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41 robust support for direct links between front-line employees' emotional intelligence and  
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43 employee- and customer-related outcomes (e.g., Kidwell *et al.*, 2011; Nikolaou and Tsaousis,  
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45 2002). Yet studies treating emotional intelligence as a moderator tend to ignore  
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47 organizational performance outcomes. The few studies that include them (e.g., Kidwell *et al.*,  
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49 2011; McFarland *et al.*, 2016) ignore non-financial performance metrics and how back-office  
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51 employees contribute to achieving performance goals. Accordingly, this study measures  
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53 organizational performance outcomes using key performance indicators (KPIs) that represent  
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3 a set of financial and non-financial measures that are critical to the current and future success  
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5 of the organization.  
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7 In addressing these research gaps, the present research builds on the positive  
8 relationship between customer orientation and firm performance (e.g., Jaworski and Kohli,  
9 1993) to investigate triadic relationships among front-line employees, back-office employees  
10 and customer-related organizational performance, which are of particular managerial concern  
11 in B2B markets. In turn, we contribute to theory and literature on emotional intelligence in  
12 B2B service settings in three main ways. First, we analyse the influence of the emotional  
13 intelligence of front-line employees on the citizenship behaviour of back-office employees.  
14 Second, we show that back-office employees' emotional intelligence directly influences the  
15 citizenship behaviour of back-office employees and moderates the effect of front-line  
16 employees' emotional intelligence on back-office employees' citizenship behaviour. Third,  
17 we examine the influence of front-line and back-office employees' emotional intelligence on  
18 financial *and* non-financial performance measures. These issues are important for both  
19 practical and theoretical reasons. Practically, this research can strengthen the hands of  
20 managers who wish to allocate more resources to develop the emotional intelligence of their  
21 customer-contact employees, both on the front line and in the back office. Theoretically, to  
22 gain a fuller understanding of the effects of emotional intelligence on organizational  
23 outcomes, scholars need to acknowledge the role of back-office employees who have mainly  
24 indirect customer contact and move beyond existing bivariate findings to investigate the  
25 moderating role of emotional intelligence.  
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### 49 **Background and hypotheses**

50 In the past decade, service research into the moderating role of emotional intelligence  
51 has shown (Table 1), for example, that greater emotional intelligence can have a mitigating  
52 influence on the links between service employees' negative emotions and emotional  
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3 exhaustion (Szczygiel and Bazińska, 2013), between stress and burnout (Görgens-Ekermans  
4 and Brand, 2012) and between emotional labour and burnout (Prentice *et al.*, 2013).

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7 Emotional intelligence also influences job-related outcomes, such that Kidwell *et al.* (2007,  
8 2011) and McFarland *et al.* (2016) find that emotionally intelligent salespeople effectively  
9 apply customer-oriented selling strategies and thereby increase their sales performance.

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12 These studies use financial measures or others' performance assessments to measure  
13 organizational outcomes, without considering the non-monetary organizational measures,  
14 such as customer satisfaction, that are critical to organizational success, in that they predict  
15 monetary metrics (Ambler, 2003; Angulo-Ruiz *et al.*, 2014; Katsikeas *et al.*, 2016; Kirca *et*  
16 *al.*, 2005). Therefore, we include both financial and non-financial performance metrics as key  
17 outcomes that are measured frequently and acted on by senior management. These metrics  
18 also assign responsibility to the individual or team level (Alvandi *et al.*, 2012).

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26 In terms of emotional intelligence in intra-organizational contexts, front-line employees  
27 (i.e., salespeople) have a tremendous influence on the success and failure of business  
28 relations. Their personal interaction with customers primarily determines service quality,  
29 customer experience and customer satisfaction (e.g., Crosby and Stephens, 1987; Crosby *et*  
30 *al.*, 1990; Hakanen and Jaakkola, 2012; Solomon *et al.*, 1985). Especially in the B2B context,  
31 business customers suffer greater uncertainty regarding their purchases of complex goods and  
32 services. When selling to business clients, salespeople need profound knowledge of their  
33 customers' buying processes and needs, as well as how their company's goods and services  
34 can meet them. Thus B2B companies need salespeople who are customer service experts,  
35 rather than product experts (Sharma, 2007), and who are primarily customer oriented (Saxe  
36 and Weitz, 1982). A customer orientation improves salespeople's performance (e.g., Cross *et*  
37 *al.*, 2007; Dunlap *et al.*, 1988; Jaramillo and Grisaffe, 2009; Rozell *et al.*, 2004; Saxe and  
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3 Weitz, 1982), as well as company performance (e.g., Narver and Slater, 1990; Singh and  
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5 Ranchhod, 2004). Considering the high quality of the salesperson–customer relationship in  
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7 B2B contexts (e.g., Mudambi, 2002; Rauyruen and Miller, 2007; Wagner and Boutellier,  
8  
9 2002), we expect front-line employees’ customer orientation to have a strong positive  
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11 influence on the financial and non-financial performance of the organization.  
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14 H1: The customer orientation of salespeople positively influences organizational  
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16 performance.  
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19 Some studies suggest that emotional intelligence predicts customer orientation (e.g.,  
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21 Rozell *et al.*, 2004), though others treat these constructs as independent (e.g., Kidwell *et al.*,  
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23 2011). We consider them separately, because salespeople clearly could exhibit high (low)  
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25 emotional intelligence and customer orientations or else have high (low) emotional  
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27 intelligence and a low (high) customer orientation. Salespeople with a stronger customer  
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29 orientation but low levels of emotional intelligence might try to use their customer orientation  
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31 to influence customers’ decisions, but they might be less effective, due to their inability to  
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33 incorporate emotional information into the customer interaction. By missing emotional  
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35 signals and cues, due to their low emotional intelligence, salespeople may end up inducing  
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37 negative emotions and actions in customers (Groth *et al.*, 2009; Kidwell *et al.*, 2011; Pugh,  
38  
39 2001; Walsh and Bartikowski, 2013). Salespeople with high emotional intelligence and low  
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41 customer orientation also might produce poor outcomes, because emotional intelligence is  
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43 morally neutral (Nagler *et al.*, 2014). High levels of emotional intelligence coupled with low  
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45 levels of customer orientation then might lead salespeople to manipulate customers and act in  
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47 their own, rather than customers’, interests (Nagler *et al.*, 2014). Such a manipulation could  
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49 lead to short-term gains, but the overall effect likely would involve diminished performance  
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51 outcomes. In contrast, emotionally intelligent salespeople who are also very customer  
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53 oriented can better understand and manage their emotions and insert emotional cues (e.g.,  
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3 nonverbal gestures, vocal intonations) in the selling process. Their customer-oriented selling  
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5 thus may be more effective. Accordingly, we hypothesise:

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7 H2: Greater emotional intelligence strengthens the positive influence of salespeople's  
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9 customer orientation on organizational performance.

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11 The emotional intelligence of one party also can directly influence the behaviours of  
12  
13 another. The emotional intelligence of salespeople appears to drive customer loyalty  
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15 behaviour (Delcourt *et al.*, 2013), and supervisors' emotional intelligence has been directly  
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17 linked to subordinates' in-role and extra-role behaviour (Wong and Law, 2002), for example.  
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19 Yet the effect of front-line employees' emotional intelligence on back-office colleagues'  
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21 emotional intelligence has not received much attention. We therefore turn to the norm of  
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23 reciprocity (Gouldner, 1960) to argue that the emotional intelligence of salespeople predicts  
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25 back-office staff citizenship behaviour, which 'is beneficial for an organization but that falls  
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27 outside of formal role requirements such that it is difficult to formally specify or reward'  
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29 (Morrison, 1996, p. 493).

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34 Salespeople with high emotional intelligence are better able to respond to the emotions  
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36 of their back-office colleagues (Greenidge *et al.*, 2014). When back-office colleagues engage  
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38 or interact with emotionally intelligent salespeople who understand and respond more  
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40 effectively to their emotions, they should recognize a benefit and feel indebted to these  
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42 emotionally intelligent salespeople (Blau, 1964). Consequently, back-office employees likely  
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44 adopt behaviours to restore balance to the relationship. Because citizenship behaviours affect  
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46 salespeople's performance, a potential way to reciprocate is by engaging in such behaviours.  
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48 Consequently, we predict:

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51 H3: The emotional intelligence of salespeople positively influences the citizenship  
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53 behaviour of back-office employees.  
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3 In line with previous studies in this area, we also expect that back-office employees'  
4 emotional intelligence directly influences their own citizenship behaviours (Carmeli and  
5 Josman, 2006; Ramachandran *et al.*, 2011; Wong and Law, 2002). Emotional intelligence  
6 enhances citizenship behaviour by enabling employees to recognize and understand the  
7 feelings of those with whom they interact. For example, back-office employees with high  
8 levels of emotional intelligence can recognise when salespeople need assistance, which may  
9 require the back-office staff to go beyond their normal duties. In addition, back-office  
10 employees with more emotional intelligence can perceive customers' emotions effectively  
11 and thus manage their emotions and find solutions, which represents a stronger form of  
12 customer-oriented citizenship behaviour. Finally, high levels of emotional intelligence mean  
13 that back-office employees manage their own emotions better, so they are able to maintain  
14 their focus on the customer rather than themselves and more likely to engage in helpful  
15 citizenship behaviours (Carmeli and Josman, 2006; Ramachandran *et al.*, 2011).

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32 H4: The emotional intelligence of back-office employees positively influences their  
33 citizenship behaviour.

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36 However, the positive effect of salespeople's emotional intelligence on the citizenship  
37 behaviour of back-office employees may be moderated by the latter's emotional intelligence.  
38 A few studies explore dyadic matches of emotional intelligence between interacting actors  
39 and the influences on various outcomes. Some studies suggest a substitution effect, such that  
40 the marginal benefit of each variable decreases as the level of the other variable increases  
41 (Voss *et al.*, 2010). In their field study, Sy *et al.* (2006) reveal that managers' emotional  
42 intelligence is more strongly associated with job satisfaction among subordinates who have  
43 low emotional intelligence. Chun *et al.* (2010) find, in a mentoring context, that mentors'  
44 emotional intelligence relates more strongly to protégés' trust when those protégés'  
45 emotional intelligence is low rather than high.

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3 Despite such findings, we predict a complementary interaction effect (Voss *et al.*,  
4 2010), in that we expect the effect of salespeople's emotional intelligence on back-office  
5 employees' citizenship behaviour to increase with the rising level of back-office employees'  
6 emotional intelligence. Unlike the previously cited studies, we investigate an interaction of  
7 peers' emotional intelligence, which differs from supervisor-subordinate interactions and  
8 dynamics. When people receive valued resources through social exchange relationships, they  
9 perceive a need to reciprocate (Blau 1964). Therefore, emotionally intelligent back-office  
10 employees who realize that salespeople have provided them with emotional resources should  
11 engage in similar activities and thus display citizenship behaviours toward customers.  
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23 H5: Greater emotional intelligence of back-office employees strengthens the positive  
24 influence of the emotional intelligence of salespeople on the citizenship behaviour of  
25 the back-office employees.  
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29 Employees' customer citizenship behaviours also are critical for organizational success;  
30 it is impossible to predict all possible requirements of customers in advance (Bowen *et al.*,  
31 1999). Back-office employees' citizenship behaviour directed toward customers should result  
32 in improved organizational performance, because customer-directed citizenship behaviours  
33 enhance customer satisfaction (Schneider *et al.*, 2005). More satisfied customers make more  
34 repeat visits to the satisfactory firm and increase their purchase levels (Keiningham and  
35 Vavra, 2001; Schneider *et al.*, 2005). Because the citizenship behaviour of back-office  
36 employees contributes to a superior customer experience, it should improve organizational  
37 performance too.  
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49 H6: The citizenship behaviour of back-office employees positively influences  
50 organizational performance.  
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## Method

With a positivistic perspective, this research uses partial least squares (PLS) to test the hypotheses, which we developed to examine the effects of front-line salespeople's customer orientation and back-office employees' citizenship behaviour on key organizational performance outcomes. In particular, we examine how the emotional intelligence of front-line and back-office employees moderates these key relationships, using quantitative procedures.

### *Participants and procedures*

The sample consisted of salespeople and back-office employees from a large multinational B2B electronic company in the United Kingdom. This company was suitable for our study: It employs a sizeable workforce, and both front-line and back-office employees come in contact with customers, so we could examine triadic relationships (among front-line employees, back-office employees and their customer-related organizational performance). The company also exhibited strong commitment to the research project and gave the research team full access to its employees and KPI data. The surveys were facilitated with the permission and support of senior management and the IT department. In all, 197 and 295 questionnaires were distributed to salespeople and back-office employees, respectively, across the United Kingdom.

Each participant had an opportunity to participate in a drawing for two £100 (\$120) gift cards. In addition to a pre-notification by company management, we sent two e-mail reminders, one week apart, to increase the response rate. We received responses from 106 salespeople and 77 back-office employees, for response rates of 50.7% and 26.1%, respectively. Although the back-office employees' response rate was lower, both these rates still compare favourably with previous research using similar samples (e.g., Hancer and George, 2003; Kidwell *et al.*, 2007). Management also noted at the start of the data collection

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3 that salespeople tended to be more responsive to answering company questionnaires than  
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5 back-office employees.  
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7 To link the 106 salespeople and 77 back-office employees, we asked each participant to  
8 identify one member from the opposite group with whom they collaborated most when  
9 working on customer orders. This matching process helped us deal with the complex nature  
10 of the interactions between salespeople and back-office employees. Management noted that  
11 though salespeople deal with many different back-office employees, they consistently rely on  
12 a particular customer service centre employee. Most of the back-office employees from  
13 whom we collected data belonged to the customer service centre. Usually, each back-office  
14 customer service employee works with several salespeople, and similarly, each salesperson  
15 needs to interact with several back-office employees. We were able to match 100 salespeople  
16 with 74 back-office employees; we then gathered the customer-related KPIs for these 100  
17 salespeople from the company and aligned the KPIs with each salesperson–back-office  
18 employee dyad.  
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34 Among salespeople, 93% of the respondents were men, and their average age was 49  
35 years ( $SD = .92$ ), with an average job tenure in the current organization of 12 years ( $SD =$   
36 1.49). The back-office employees sample consisted of 55% men. Their average age was 28  
37 years ( $SD = 1.12$ ), and their average length of employment in the current organization was 12  
38 years ( $SD = 1.53$ ).  
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#### 45 *Measures*

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47 The measurement scales in the questionnaires were either adopted or adapted from  
48 previous literature and emphasised the context, in accordance with suggestions from senior  
49 management (see the Appendix). The salespeople's customer orientation measure came from  
50 Perriatt *et al.*'s (2004) five-item scale, and we adapted the original item 'A good employee has  
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3 to have the customer's best interest in mind' to read, 'A good salesperson has to have the  
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5 customer's best interest in mind'.  
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7 The emotional intelligence measures relied on Wong and Law's (2002) 16-item  
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9 Emotional Intelligence Scale (WLEIS), which has been rigorously tested and validated in  
10  
11 many industries and cultures (Christie *et al.*, 2007; Libbrecht *et al.*, 2014; Sy *et al.*, 2006).  
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13 Previous studies (e.g., Kidwell *et al.*, 2011) employ lengthy emotional intelligence measures  
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15 (e.g., 140 items), but they might cause respondent fatigue, which in turn could adversely  
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17 affect their reliability. The WLEIS scale instead consists of four items for each of the four  
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19 dimensions of emotional intelligence. The Self-Emotion Appraisal dimension assesses the  
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21 self-perceived ability to understand one's own emotions (e.g., 'I have a good sense of why I  
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23 have certain feelings most of the time'). With the Others' Emotion Appraisal dimension, we  
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25 assess each person's ability to perceive others' emotions (e.g., 'I am a good observer of  
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27 others' emotions'). The Regulation of Emotion dimension pertains to the perceived ability to  
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29 regulate one's own emotions. (e.g., 'I am able to control my temper and handle difficulties  
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31 rationally'). Finally, with the Use of Emotion dimension, we measure the self-perceived  
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33 tendency to motivate oneself to enhance performance (e.g., 'I always set goals for myself and  
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35 then try my best to achieve them'). In line with previous studies (Kafetsios and Zampetakis,  
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37 2008; Law *et al.*, 2004), we regard the items as reasonable estimates of the dimensions, so the  
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39 dimensions in turn can be represented as a multidimensional emotional intelligence construct.  
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45 For back-office employees' citizenship behaviour, we used a five-item scale (e.g., 'I  
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47 voluntary assist the customers even if it means going beyond job requirements') from  
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49 Bettencourt and Brown (1997). The measure of organizational performance relied on an  
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51 index based on KPIs provided by the company. The KPIs included both financial (e.g.,  
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53 customer service revenue, product sales revenue, monthly revenue) and non-financial (e.g.,  
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3 service excellence, customer feedback, mood indicator) measures. They were unique to each  
4 salesperson, so the number of KPIs used in the analysis was substantial.<sup>1</sup>  
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7 The measures are self-reported (cf. organizational performance), so we sought to reduce  
8 the risk of response biases. First, when administering the questionnaire, we stressed the  
9 independence of the research team and the confidentiality of results, especially with regard to  
10 internal company usage (i.e., senior managers would not know the identities of respondents).  
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12 Second, we administered the questionnaire through QUALTRICS, an online survey platform  
13 that allowed the employees to complete the survey at their own convenience and, if preferred,  
14 outside of work.  
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### 22 *Data analysis*

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24 To estimate the measurement and structural models, we used PLS, an iterative  
25 combination of principal components analysis and ordinary least squares path analysis that  
26 serves to maximize the prediction of endogenous constructs (Chin, 1998). The PLS technique  
27 offers advantages for accommodating a relatively small sample, because the model  
28 parameters are estimated in blocks and do not require an assumption of multivariate  
29 normality (Hair *et al.*, 2012). Furthermore, PLS does not lead to estimation problems such as  
30 improper or non-convergent results, so it can handle complex models, such as those that  
31 include moderator variables (Hair *et al.*, 2014). To test the moderating hypotheses, we  
32 adopted a product indicator approach (Chin *et al.*, 2003). Following the procedure proposed  
33 by Henseler and Chin (2010), the indicators of the main and moderating variables were first  
34 standardized by mean-centring, which facilitates the interpretation of the interaction model  
35 results. Then we created pairwise product indicators by multiplying each indicator of the  
36 main construct with each indicator of the moderating construct. Finally, the product  
37 indicators provided the interaction construct. The bootstrapping procedure used 1,000  
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58 <sup>1</sup> The full list of KPIs included in this study is available on request.  
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3 resamples in SmartPLS software, and it generated robust standard errors and t-statistics (Hair  
4  
5 *et al.*, 2014).  
6

## 7 8 **Results**

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10 The composite reliabilities for all variables exceed the cut-off value of .80, the average  
11 variance extracted (AVE) values for all focal variables exceed .50, and all indicators load  
12 significantly ( $p < .05$ ) and substantially ( $> .70$ ) on their hypothesized factors, so each  
13 construct has acceptable convergent validity (Fornell and Larcker, 1981). The square root of  
14 the AVE for each construct also exceeds its correlations with other model constructs (see  
15 Table 2), in support of discriminant validity (Fornell and Larcker, 1981). In addition, the  
16 cross-loadings are not substantial compared with the loadings on the hypothesized factors,  
17 thus providing additional support of discriminant validity (Hair *et al.*, 2014).  
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27 --- Insert Table 2 approx. here ---  
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29 The percentages of explained variance ( $R^2$ ) for back-office employees' citizenship  
30 behaviour and organizational performance are .41 and .04 respectively, indicating the  
31 acceptable explanatory power of the model (Hair *et al.*, 2014). Table 3 provides a summary  
32 of the results.  
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38 --- Insert Table 3 approx. here ---  
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### 40 *Main and moderating effects*

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42 We predicted in H1 that salespeople's customer orientation is positively associated with  
43 organizational performance, and our analysis confirms this hypothesis ( $\beta = .18, p < .05$ ). In  
44 addition, H2 proposes that salespeople's emotional intelligence strengthens the positive effect  
45 of salespeople's customer orientation on organizational performance, which is supported by  
46 the data ( $\beta = .21, p < .05$ ). Consistent with H3, salespeople's emotional intelligence is  
47 positively associated with back-office employees' citizenship behaviour ( $\beta = .29, p < .05$ ). In  
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3 with back-office employees' citizenship behaviour, and our analysis confirms this hypothesis  
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5 ( $\beta = .31, p < .05$ ). As we anticipated in H5, back-office employees' emotional intelligence  
6  
7 accentuates the positive effects of salespeople's emotional intelligence on back-office  
8  
9 employees' citizenship behaviour, with a significant interaction term ( $\beta = .17, p < .05$ ) that  
10  
11 confirms the moderating role of back-office employees' emotional intelligence. Finally, in  
12  
13 support of H6, back-office employees' citizenship behaviour is positively associated with  
14  
15 organizational performance ( $\beta = .32, p < .05$ ).  
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#### 18 *Post hoc analysis*

19  
20 We included covariates related to the salespeople and back-office employees to test the  
21  
22 robustness of the hypothesized relationships. We controlled for gender, age, job tenure, type  
23  
24 of role, amount of direct customer contact and sales experience. Their inclusion did not alter  
25  
26 the substantive findings in any way, indicating the absence of an omitted variable bias  
27  
28 (Becker *et al.*, 2016). These results thus affirm the robustness of our findings.  
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#### 31 **Discussion**

32  
33 Past research appears premised on the idea that front-line employees (i.e., salespeople)  
34  
35 have, and need, higher levels of emotional intelligence than do back-office employees,  
36  
37 because the latter are largely shielded from or only have indirect contact with customers (e.g.,  
38  
39 Dimitriadis, 2007). We regard this assumption as inaccurate. Especially as companies  
40  
41 increasingly embrace customer relationship management (CRM) and seek to address all  
42  
43 aspects of a holistic customer experience (Ernst *et al.*, 2011), all employees need to  
44  
45 contribute to enhanced customer relationships. From a CRM perspective, back-office  
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47 employees are imperative to building and nurturing customer relationships. Therefore, back-  
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49 office employees must be customer-centric and exhibit emotional intelligence.  
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54 With this study, we examine the links between front-line employees' customer  
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56 orientation and customer-related organizational performance, as well as the links between  
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3 their emotional intelligence and the customer-directed citizenship behaviour of back-office  
4 employees, which in turn can influence organizational performance. In addition, we examine  
5 the boundary conditions of the links between front-line employees' customer orientation and  
6 organizational performance and between front-line employees' emotional intelligence and  
7 back-office employees' citizenship behaviour. Drawing on a review of the pertinent literature  
8 and an empirical study, we find support for the moderating role of front-line employees' and  
9 back-office employees' emotional intelligence. Specifically, salespeople's emotional  
10 intelligence enhances the positive effect of their customer orientation on organizational  
11 performance; back-office employees' emotional intelligence also strengthens the positive  
12 effect of salespeople's emotional intelligence on back-office employees' citizenship  
13 behaviour, which in turn has a positive influence on organizational performance. Our  
14 research builds on and extends research that has focussed on the direct relationships between  
15 front-line employees' emotional intelligence and customer or organizational outcomes (e.g.,  
16 Chen and Jaramillo, 2014; Görgens-Ekermans and Brand, 2012) by considering back-office  
17 employees, as well as the contingencies of their important relationships.

### 36 *Theoretical implications*

37  
38 Emotional intelligence theory highlights the importance of desirable employee  
39 behaviours resulting from emotional intelligence, such as job satisfaction (Sy *et al.*, 2006), as  
40 well as the moderating role of emotional intelligence (McFarland *et al.*, 2016). However,  
41 prior research mostly notes the effect of front-line employees' emotional intelligence on  
42 financial performance measures (Kidwell *et al.*, 2007, 2011; McFarland *et al.*, 2016). Such an  
43 isolated view ignores the vast complexity of most companies' organizational structures.  
44 Front-line employees often must interact with not only customers but also peers who help  
45 them process the customer transactions. To advance emotional intelligence theory, we  
46 consider both front-line *and* back-office employees, as well as some boundary conditions of  
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3 their important relationships. The resulting, more comprehensive view of working  
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5 relationships in B2B companies and their influence on customer-related organizational  
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7 performance extends theory in three main directions.  
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10 First, we acknowledge and empirically corroborate the existence of patterns of  
11  
12 interdependence between front-line and back-office employees. Specifically, we extend  
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14 emotional intelligence theory by showing that front-line employees' emotional intelligence  
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16 drives customer-related organizational performance by influencing front-line employees'  
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18 behaviour and also by exerting an effect on the behaviour of back-office co-workers. Second,  
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20 we show that back-office employees' emotional intelligence influences customer-related  
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22 organizational performance by increasing customer-directed citizenship behaviours and  
23  
24 strengthening the effect of salespeople's emotional intelligence on back-office employees'  
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26 citizenship behaviour. Third, we find that front-line and back-office employees' behaviour  
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28 and their emotional intelligence affect KPIs, including both financial and non-financial  
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30 performance metrics of B2B companies that are critical to organizational success, because  
31  
32 they predict financial performance metrics.  
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### 35 36 *Managerial implications*

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38 From a managerial perspective, our findings suggest that all employees who come in  
39  
40 contact with customers need to be considered when devising strategies for increasing  
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42 customer-related organizational performance. Companies should not limit their resources and  
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44 support to salespeople on the front line; instead, they need to equip employees with necessary  
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46 emotional skills at all points of contact with customers. Considering the direct and  
47  
48 moderating effects of emotional intelligence on key outcomes, we recommend that all  
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50 customer-contact employees receive training to increase their emotional competence. Toward  
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52 this end, companies could launch emotional intelligence training programmes (Furnham,  
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2009), in line with evidence that shows that such programmes are effective at increasing both the emotional intelligence and the sales performance of salespeople (Gignac *et al.*, 2012).

Our findings also provide clear indications for customer-centric companies that view recruitment as a strategic activity. When hiring new employees, they should screen to select for emotional intelligence as a key competence. Companies could issue an emotional intelligence test and thereby exclude candidates who are poorly suited to customer contact jobs (cf. Austin *et al.*, 2004). Using such tests early in the selection process is advisable, because it prevents unsuitable candidates from going through to the more difficult, expensive stages of the recruitment process (Bateson *et al.*, 2014). Such efficient, inexpensive tests can help ensure that the selected candidates possess emotional intelligence and are able to perform well in relation to customers and fellow employees, as well as across various performance dimensions.

In addition to training to all employees that contribute to the service experience, companies could leverage their existing employees with high emotional intelligence as internal coaches. Bande *et al.* (2015) report that salespeople with high emotional intelligence are less likely to experience emotional exhaustion or quit as a result of it. Therefore, emotionally intelligent salespeople tend to stay with the organization longer than those with lower emotional intelligence. Companies could pair such emotionally intelligent employees with less emotionally intelligent performers, to help the latter learn the ins and outs of emotional intelligence, especially in relation to customers.

#### *Limitations and further research*

Our study is not free of limitations, which in turn offer opportunities for research. We purposefully gathered data from one B2B company, to ensure high internal validity, but in doing so, we sacrificed some external validity. Additional research could examine the replicability of our results in a field study with a cross-section of B2B firms. We also were

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3 unable to measure other employee outcomes, such as job satisfaction or organizational  
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5 identification. In designing the questionnaires, we sought comments from senior managers of  
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7 the focal organization regarding the length of time that respondents might be willing to spend  
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9 completing the questionnaire. We accordingly avoided an overly long questionnaire, out of  
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11 concerns that it might detrimentally affect the response rate. Further research into the  
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13 emotional intelligence of front-line and back-office employees might adopt a nomological  
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15 model and include more employee outcomes.  
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19 We also note the need to link employee emotional intelligence with customer emotional  
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21 intelligence. The present study is premised on the assumption that employee emotional  
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23 intelligence (at the front line and in the back office) positively affects customer attitudes and  
24  
25 drives customer-related organizational outcomes. We did not demonstrate this link  
26  
27 empirically though. Further studies might use dyadic data and thereby link emotional  
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29 intelligence at the individual employee level to the customer level. Another option is that  
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31 customers who score high on emotional intelligence are less receptive to the emotional  
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33 intelligence of employees; in such cases, employee emotional intelligence might have weaker  
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35 effects on organizational outcomes. We hope additional studies address these possibilities.  
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**Table 1** Literature synthesis (2006–2016)

Author(s)	Sample	Relationship	Theoretical Frameworks: Scales	Analysis: Findings	Mediator(s) Considered	Moderator(s) Considered
McFarland <i>et al.</i> (2016)	N = 143 salespeople, N = 33 supervisors, 3 matched data sources*	Salespeople's sales performance	Appraisal theory, contingency theory, and role stress: MSCEIT**	HLM: EI moderates the relationship of role ambiguity with emotional exhaustion, customer-oriented selling and sales performance	None	EI
Qazi <i>et al.</i> (2014)	N = 100 telecom and banking	N/A	EI: <i>Does not say which scale used.</i>	Regression: EI of employees has no moderating effect on the leadership–performance relationship.	None	EI
Bibi <i>et al.</i> (2013)	N = 160 lectures at 7 private universities	N/A	EI: WLEIS**	Hierarchical regression analyses: EI moderates the relationship between workplace incivility and counterproductive work behaviour	None	EI
Gao <i>et al.</i> (2013)	N = 212 school teachers	N/A	Conservation of resource theory: WLEIS**	Hierarchical multiple regression analyses: EI moderates the relationship between work–family conflict and job satisfaction	None	EI
Prentice <i>et al.</i> (2013)	N = 578 hospitality organizations	N/A	EI: EIS**	Structural equation modelling: EI moderates the relationship between emotional labour and burnout	None	EI, organizational commitment
Szczygieł and Bazińska (2013)	N = 137 service sector employees	N/A	EI: Trait EI Questionnaire-Short Form (TEIQue-SF)	Hierarchical multiple regression analysis: EI moderates the relationship between negative emotions and emotional exhaustion	Negative emotions	EI
Görgens-Ekermans and Brand (2012)	N = 122 nurses in 4 hospitals	N/A	EI: 64 item self-report, Swinburne University EI test (Palmer and Stough 2001)	Multiple regression: The moderator effect of EI in the stress–burnout relationship suggests that enhanced EI may help diminish burnout.	None	EI
Kidwell <i>et al.</i> (2011)	Study 1: N = 69 Study 2: N = 107 Study 3: N = 88 Salespeople, B2C	Salespeople's sales performance	Customer orientation: MSCEIT and EI Measure (EIME)	Sales professionals with higher EI are not only superior revenue generators but also better at retaining customers. EI moderates the relationship between customer orientation and sales performance	EI	EI
Devonish and Greenidge (2010)	N = 211 financial, manufacturing, services, private & public sector	N/A	EI: WLEIS**	Hierarchical moderated regression: EI moderates the relationship between procedural justice and contextual performance but not the other justice–performance relationships.	None	Composite EI and its four subdimensions
Ojedokun (2010)	N=225, police force	N/A	Effort reward imbalance concept: EIS**	Hierarchical moderated regression: EI moderates the relationship between effort–reward imbalance and	No	EI

				attitude toward unethical work behaviour.		
Vigoda-Gadot and Meisler (2010)	N = 380, public sector	N/A	EI: WLEIS**	Hierarchical regression analysis: Moderating role of EI in the relationship between organizational politics and emotional commitment, as well as between organizational politics and employees' absenteeism.	None	EI
Kidwell <i>et al.</i> (2007)	N = 135 in 15 B2B firms	Salespeople matched with supervisors	EI: MSCEIT**	Multiple regression analysis: EI moderates the relationship, such that salespeople who are better at perceiving customers' emotions tend to be more effective when using customer-oriented behaviours and adaptive selling.	None	EI
Johnson and Spector (2007)	N = 176 employees in 8 customer service organizations	N/A	EI: WLEIS**	Moderator regression analysis: EI does not moderate the relationship between the emotional labour and personal outcomes. EI relates directly to outcomes.	None	EI, gender, and job autonomy

Notes: EI = emotional intelligence; HLM = hierarchical linear modelling.

\*These include data from an ability-based EI measure, the MSCEIT, supervisor ratings of salespeople and self-reported responses by salespeople.

\*\* 16-item self-reported measure of EI, Wong and Law Emotional Intelligence Scale (WLEIS); 141 item Mayer-Salovey-Caruso emotional intelligence test (MSCEIT); 33-item emotional intelligence scale (EIS) developed by Schutte *et al.* (1998) based on Salovey and Mayer (1990).

**Table 2** Means, standard deviations, correlations and square root of the average variance extracted

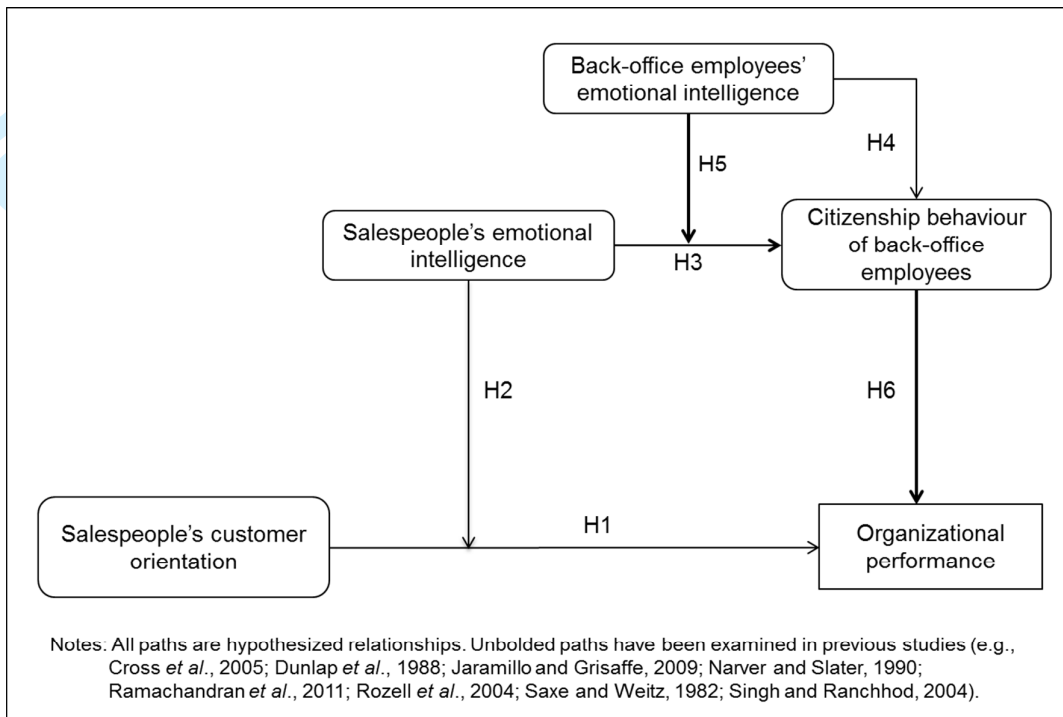
Variable	Mean	SD	1	2	3	4
1. Salespeople's customer orientation	6.57	.50	.78			
2. Salespeople's emotional intelligence	2.07	.53	.26	.73		
3. Back-office employees' emotional intelligence	2.18	.67	.24	.15	.73	
4. Back-office employees' citizenship behaviour	1.90	.80	.21	.11	.58	.88

Note: Values in main diagonal are the square roots of the average variance extracted; SD = standard deviation.

**Table 3** Results of the structural model

Path	Path coefficient ( $\beta$ )
H1: Salespeople's customer orientation → Organizational performance	.18*
H2: Salespeople's customer orientation × salespeople's emotional intelligence → Organizational performance	.21*
H3: Salespeople's emotional intelligence → Back-office employee's citizenship behaviour	.29*
H4: Back-office employee's emotional intelligence → Back-office employees' citizenship behaviour	.17*
H5: Salespeople's emotional intelligence × back-office employees' emotional intelligence → Back-office employee's citizenship behaviour	.31*
H6: Back-office employees' citizenship behaviour → Organizational performance	.32*

\*  $p < .05$ .

**Figure 1** Conceptual model



## Appendix

## Scales and Items Employed in the Study

Constructs and Measurement Items	CR	AVE	Loading
<b>Salespeople ratings:</b>			
<b>Customer orientation</b> (Adapted from Perriatt <i>et al.</i> , 2004)	.89	.62	
<i>Please indicate the proportion of your customers with whom you act as described in the statement.</i>			
A good salesperson* has to have the customer's best interest in mind.			.78
I offer the product/service of mine that is best suited to the customer's problem.			.77
I try to find out what kind of product/service would be most helpful to a customer.			.84
I try to bring a customer with a problem together with a product/service that helps him solve that problem.			.73
I try to figure out what a customer's needs are.			.81
<b>Emotional intelligence</b> (Adopted from Law <i>et al.</i> , 2004)	.92	.53	
<i>Please indicate the degree to which you agree with the following statements concerning your emotions.</i>			
<b>Self Emotions Appraisal (SEA)</b>	.92	.74	
I have a good sense of why I have certain feelings most of the time.			.79
I have good understanding of my own emotions.			.91
I really understand what I feel.			.90
I always know whether or not I am happy.			.84
<b>Others' Emotions Appraisal (OEA)</b>	.91	.73	
I always know my friends' emotions from their behaviour.			.83
I am a good observer of others' emotions.			.87
I am sensitive to the feelings and emotions of others.			.79
I have good understanding of the emotions of people around me.			.93
<b>Use of Emotion (UOE)</b>	.91	.71	
I always set goals for myself and then try my best to achieve them.			.78
I always tell myself I am a competent person.			.81
I am a self-motivating person.			.89
I would always encourage myself to try my best.			.87
<b>Regulation of Emotion (ROE)</b>	.92	.75	
I am able to control my temper so that I can handle difficulties rationally.			.86
I am quite capable of controlling my own emotions.			.87
I can always calm down quickly when I am very angry.			.79
I have good control of my own emotions.			.93
<b>Back-office employees ratings:</b>			
<b>Emotional intelligence</b> (Adopted from Law <i>et al.</i> , 2004)	.92	.53	
<i>Please indicate the degree to which you agree with the following statements concerning your emotions.</i>			
<b>Self Emotions Appraisal (SEA)</b>	.92	.75	
I have a good sense of why I have certain feelings most of the time.			.83

1				
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3	I have good understanding of my own emotions.			.89
4	I really understand what I feel.			.93
5	I always know whether or not I am happy.			.81
6	<b>Others' Emotions Appraisal (OEA)</b>			
7	I always know my friends' emotions from their behaviour.	.94	.79	.89
8	I am a good observer of others' emotions.			.91
9	I am sensitive to the feelings and emotions of others.			.82
10	I have good understanding of the emotions of people around			.94
11	me.			
12	<b>Use of Emotion (UOE)</b>			
13				
14	I always set goals for myself and then try my best to achieve	.89	.66	.84
15	them.			
16	I always tell myself I am a competent person.			.73
17	I am a self-motivating person.			.87
18	I would always encourage myself to try my best.			.80
19				
20	<b>Regulation of Emotion (ROE)</b>			
21	I am able to control my temper so that I can handle difficulties	.95	.83	.90
22	rationally.			
23	I am quite capable of controlling my own emotions.			.94
24	I can always calm down quickly when I am very angry.			.87
25	I have good control of my own emotions.			.93
26	<b>Employee citizenship behaviour</b> (adopted from Bettencourt			
27	and Brown, 1997)	.94	.78	
28	<i>Please indicate the extent to which you agree with the</i>			
29	<i>following statements regarding your job.</i>			
30	I voluntarily assist the customers even if it means going beyond			.88
31	job requirements.			
32	I helps customers with problems beyond what is expected or			.94
33	required.			
34	I often go above beyond the call of duty when serving			.93
35	customers.			
36	I willingly go of my way to make a customer satisfied.			.91
37	I frequently go out of the way to help a customer.			.76
38				
39				

Note: CR = composite reliability; AVE = average variance extracted.

\* The term employee in the original scale was changed to 'salesperson' for this study.