

CONTEXTUAL EXPLANATION: ALTERNATIVE APPROACHES AND PERSISTENT CHALLENGES

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Appendix

The articles in the table below were identified in searches of the EBSCOhost Business Source Complete Database for the *Information Systems Journal*, *Information Systems Research*, *Journal for the Association of Information Systems*, *Journal of Management Information Systems*, and *MIS Quarterly*; ProQuest ABI/INFORM Collection for *European Journal of Information Systems* and *Journal of Information Technology*; and Elsevier Science Direct Journals Complete for the *Journal of Strategic Information Systems*. The articles were searched by the word “context” in the abstract AND “contextual” in the article text, for the period 2000–2018.

Article	Focal Phenomenon	Context
European Journal of Information Systems		
Chua and Myers 2018	Control in IS development	Organization (legacy control mechanisms, employment contract, tradition)
Babaian et al. 2018	Usability of ERP systems	History of preceding tasks in a business process
Wright et al. 2017	SaaS assimilation in nonprofit sector	Organization (readiness, top management participation/beliefs satisfaction; innovativeness); nonprofit sector environment (social gains; revenue, years of operation, industry)
Jain and Ramesh 2015	Post-merger common platform development	Organization (IT infrastructures, history of IS implementation); industry (trends of mergers and acquisition, physical infrastructures); boundary-spanning activities
Shen et al. 2015	IT in teams	Linear time, socially constructed time in work organizations; team activities
Gregor et al. 2014	e-Government in least developed countries	Government sector in developing countries; sweet spot (a zone of GDP per capita within which social change across a wide range of individual life conditions is especially rapid in Hughes (2001))
Constantiou et al. 2014	Use of location-based services	Past user experience and knowledge; situation of use (static or dynamic)
Allen et al. 2014	Information sharing and interoperability in emergency incidents	Interorganizational activity
Karanasios and Allen 2014	Mobile technology-mediated work	Work practices
Leclercq-Vandelannoitte 2014	Identity and technology relationships	Organization (management discourses)

Article	Focal Phenomenon	Context
Ravishankar et al. 2013	IT offshoring	Colonial history, interorganizational relationship (power asymmetries)
Wilkin et al. 2013	Management of public/private-sector IT deployment	Interorganisational public/private sector IT project (stakeholders, organizational complexity, decision making culture, attitude to initiatives, learning and risk)
Yayla and Hu 2012	IT-business strategic alignment and firm performance	National business environment (uncertainty); business firm strategic orientation; national conditions affecting organizational IT (technology infrastructures, government policy, funding availability, consumer IT experience)
Bidan et al. 2012	IS integration architectures	SME (IT history)
Monteiro and Rolland 2012	Use of integrated information systems	Technologically mediated, geographically dispersed work practices
Bjørn et al. 2009	Configuration of electronic templates for healthcare professionals	Work practices in hospitals; boundaries among specialist practices (patient populations they deal with, specialist clinical work, spatial layout and coordinate artefacts)
Mourmant et al. 2009	IT turnover	IT industry (factors specific to a given firm, such as its IT strategy, size, structure, location in the organization life cycle, the IT work process; factors of a firm's external environment, including general technology trends, the IT labor market, legal issues, national culture, and the growing influence of globalization)
Payton and Kiwanuka-tondo 2009	User centred design of HIV/AIDS information portals	The population of black women targeted by government HIV/AIDS information portals (social and psychological experiences of race and ethnicity); HIV/AIDS social/medical service agencies
Cho et al. 2008	Health information systems implementation	Actor networks across hospital clinics and departments during IS implementation
Lyytinen and Newman 2008	Information Systems change	The immediate organizational environment of the IS building system (includes the resource, authority, culture, and political systems in which the IS change unfolds); the organization's social, economic, political, regulatory, and competitive environments
Kasi et al. 2008	Post mortem evaluation	Organization (ability to learn, incentives for learning from failure, structure, IT training)
Chu and Robey 2008	Online learning	Work practices; time (past, present future)
Cho and Mathiassen 2007	Industry innovation in telehealth innovation	Stakeholder groups of IT innovation in the healthcare sector; infrastructures for IT innovation in the healthcare sector (institutional, resource endowments; market mechanisms; proprietary activities involved in innovation for profit)
Hackney et al. 2007	e-Reverse auctions in public sector procurement	Industry sector; market characteristics (number of competitors)
Quaddus and Hofmeyer 2007	Adoption of B2B in small businesses	Organizational and external factors (manager/owner characteristics, vendors, competition, government, trading partners)
Scheepers et al. 2006	Mobile IT user satisfaction	Organization and extra-organizational environment (individual user as employee, as professional, and as member of society)

Article	Focal Phenomenon	Context
Andersen 2006	Activity-based design	Habitat (physical places where particular artefacts and information sources are available)
Scheepers 2006	Implementation of enterprise information portals	Internal market of potential portal users in the organization (groupings of users' information needs)
Lyytinen and Rose 2006	Agile IS development	Organizations involved in IT innovation (vendors and manufacturers, IS development organizations, IT deploying organizations)
Lin and Silva 2005	IT adoption	IT project (social and political processes)
Fitzgerald and Russo 2005	IS failure	IS development and implementation project and its organization environment
Randall et al. 2001	Organizational knowledge and memory	Workplace of organizations (everyday activities)
Information Systems Journal		
Althuizen 2018	Technology acceptance	Organization (social influences and facilitating conditions)
Kude et al. 2018	IT-based synergies in organizations	IT governance (regulation oriented and consensus oriented)
Mettler 2018	Professional social networks	Organization (linguistic, historical, political, professional and social conditions)
Simeonova 2018	Transactive memory in knowledge sharing	Activity system (trust, informal networks)
Lee et al. 2018	Email for conflict handling	Interorganizational conflict situation
Willison et al. 2018	Employee computer abuse intentions	Organization (procedural and distributed justice, sanctions)
Salo and Frank 2017	Mobile application user behaviour after critical incidents	Situation of use (task activity, physical place, sociality, technology characteristics)
Gizaw et al. 2017	Design and implementation of generis software	Software vendors and user organizations
Malaurent and Avison 2016	IS requirements	National setting (culture, regulation); organization (standards)
Tarafdar et al. 2015	The stress from using IT	Organization (employee role and tasks, social support and job control)
Zimmermann and Ravishankar 2014	Knowledge transfer processes from onshore to offshore teams	Social network infrastructure, organizational culture, national and social culture, employee and offshore team social ties
Hustad and Olsen 2014	Teaching enterprise systems skills	IS teaching organization
Subramaniam et al. 2013	Social media use for virtual collaboration	Dispersed organization (employee communication); enterprise systems
Stacey and Nandhakumar 2009	Development process of software games	Work practice, international and industry conditions
Larsen et al. 2009	Use of UML in organizations	Systems development practice; organization (multiple factors, including employee skills and knowledge base, culture, project management, leadership)
Oshri et al. 2008	The role of transactive memory in knowledge transfer	Globally distributed teams (memory of who knows what)
Lindgren et al. 2008	Boundary-spanning practices	Work practice, ubiquitous computing environment, sensor technologies
Westrup and Liu 2008	ICTs in joint ventures	Global firms, national culture
Yoo et al. 2007	Post-merger knowledge sharing	Organization (culture, routines, incentive systems); time as path dependency and time pressure

Article	Focal Phenomenon	Context
Gao 2007	Standardization in wireless local area networks	Actor network and counter networks in the development of wireless local area network standards (institutional, social and technological elements)
Sarkkinen and Karsten 2005	Visual and verbal representations in task redesign	Discourse surrounding task redesign as part of ISD in an organization
Gao 2005	Telecommunication strategy making	National economic conditions, national policies, regional industry competitiveness
Kautz and Nielsen 2004	Software process improvement	Organization (various factors, including size, departmental and task differentiation and complexity, history, distribution of power)
Lyytinen and Rose 2003	Disruptive information systems innovation	Long waves of ICT evolution
Lundell and Lings 2003	Evaluation of CASE tools	IS development companies (system development tool requirements); external requirements (e.g., ISO standards)
Detlor 2003	IS information seeking in organizations	Work/social setting in organizations (work situation influencing information needs, culture and structure as constrains to information seeking behavior, social norms and stakeholder interests influencing patterns of information use and perceptions of problem resolution)
Caldeira and Ward 2002	Adoption of IS in SMEs	Organization (various factors including financial resources, human resources, management approaches); external environment, including IT vendors, available technologies, competition, industry market services, government support.
Liu et al. 2001	Design of collaborative information systems	Cooperative work (norms, responsibilities and authorities)
Bannister 2001	Development of integrated information systems in public administration	Public sector organization (cultural, structural, resource and technical conditions, legacy systems)
Avgerou 2001	IT innovation and the social context	Organization (processes of change, technical rational decisions and institutional conditions); national and international (policies and institutional influences)
Henfridsson 2000	Ambiguity in organizations and the effect on IT adaptation	Social work organizations (history of IT, sense making of IT, institutional support structures)
Information Systems Research		
Breward et al. 2017	IT adoption	Conditions of trust in the organization introducing the technology; familiarity with the technology; perceived control over the technology
Lankton et al. 2016	Trust in technology	Expectation maturity (introductory period)
Ramesh et al. 2012	Agile distributed software development	Performance management and social factors as antecedents of organizational ambidexterity
Xu et al. 2012	Individuals' concerns for information privacy	Industry self-regulation and government legislation
Hsu et al. 2012	Organizations' information security management	Isomorphic institutional pressures, organizational economic considerations, organizational capability
Mishra et al. 2012	Information sharing in healthcare	Physicians' professional communities and working practices; government influences
Dennis et al. 2012	Trust in virtual teams	Organization (arrangements for monitoring and evaluation of work)

Article	Focal Phenomenon	Context
Kleis et al. 2012	The impact of IT on innovation productivity	IT producing and IT user industries
Anderson and Agarwal 2011	Individuals' willingness to disclose personal health data for digitization	Purpose for which information is requested and requesting stakeholders
Durcikova et al. 2011	Individuals' knowledge exploration and knowledge exploitation	Technology support organizations (climate for innovation and climate for autonomy; access to knowledge management systems)
Vannoy and Salam 2010	IS in competitive actions or responses and firm performance	Organization (competitive processes, culture, strategy, managerial perceptions).
Liu et al. 2010	Personalization in content delivery sites	Cost and revenue factors of content-delivery websites
Gopal and Gosain 2010	Software outsourcing performance	Organization (formal and informal controls), boundary spanning activities
Burton-Jones and Straub 2006	System usage	Task
Chidambaram and Tung 2005	Individuals' contribution to computer-supported group work	Group characteristics
Hong et al. 2004	Animation and online users' attention	Website interface design
Kirsch 2004	Control of the development of information systems that will be deployed globally	Organizational units (priorities, geographic, time and cultural differences)
Malhotra et al. 2004	Internet users' information privacy concerns	Organization (information collection practices)
Choudhury and Sabherwal 2003	Control in outsourced systems development projects	Organizations (vendor knowledge, vendor-client relationships)
Journal of the Association for Information Systems		
Holeman and Barrett 2017	Design and implementation of an Internet of things technology in health care	Social practices in health care organizations; material infrastructures
Park et al. 2017	IT and organizational agility	Organization (size, top management team energy); environmental velocity (speed of change, unpredictability)
Crossier and Posey 2017	Use of identity ecosystems	User activity on the web; user location; network type
Venkatesh et al. 2016	Technology acceptance and use	Eight dimensions of context: use, technology, task, time/event, (social) organization, (physical) environment, rationale
Young et al. 2016	IT-enabled change	Organization (groups' technology frames)
Cranefield et al. 2015	Lurking in online communities	Multiple online and offline spaces of engagement with learning and knowledge; the boundaries between them
Richardson et al. 2014	IT-enabled organizational agility	Social enterprise organization, social sector; digital platform
Strong et al. 2014	Electronic-health-record-associated organizational change	Health organization: goals, culture, roles
Thorén et al. 2014	IT-enabled open innovation	Practices in the newspaper industry
Bo and Wong 2013	Perceived usefulness of knowledge sharing mechanisms	Organizational climate

Article	Focal Phenomenon	Context
Staehr et al. 2012	Achieving business benefits from ERP systems	Organization (management, finance, etc.); industry sector; government; IT sector; business environment; ERP project
Davern et al. 2012	IT and cognition	Task, team, organization, IT systems
Lim et al. 2011	IT project failure risk management	Social structures of IT development project
Bragge and Merisalo-Rantanen 2009	Web-based information systems development	User organization
Davison et al. 2009	IT professionals' ethics	National historically developed culture; national economic, social and institutional conditions; international professional norms
Pipek and Wulf 2009	Design and use of information technology	Organizational sociotechnical work conditions (including devices, tools, technologies, standards, conventions, and protocols)
Hespø et al. 2009	Development of e-infrastructures	Work practices and technologies related with the production history of the organization
Recker et al. 2009	Business process modeling	The organization in which the process is embedded; the broader setting of the organization; time, location, weather, market conditions, etc. for context aware systems
Davis et al. 2009	The use of metaverses in virtual team collaboration	Virtual world systems; virtual teams
Kudaravalli and Faraj 2008	Online collaboration	Conversation threads in electronic media
Sheng et al. 2008	Personalization and privacy concerns in ubiquitous commerce adoption	Physical, social, temporal, and task-related dimensions of a purchase process
Gable et al. 2008	Conceptualizing and measuring IS success	IT function capabilities and practices
Mehta and Hirschheim 2007	IS integration in mergers and acquisitions	Corporate business conditions, pre-merger organizational conditions; organizational IS infrastructures; industry conditions
Dickey et al. 2007	Computer mediated communication	Social linguistics of a discourse
Bergman et al. 2007	Boundary objects in systems analysis and design of information systems	Organization (functional and political aspects); projects and technical work of systems development
Truex et al. 2006	Adaptation of theory borrowed from another discipline	History of the development of a theory in an academic discipline
Rossi et al. 2004	Evolutionary ISD method engineering	ISD development and IS use; business changes and technology changes
Journal of Information Technology		
Rohde et al. 2017	IS design	Organization (social practices)
Nicholson et al. 2017	Corporate social responsibility in outsourcing	Social space "betwixt and between" organizations, where routines of the formal organizations are suspended
Davison and Martinsons 2016	Any IS research	Cultural and institutional aspects of the phenomenon under study
Mettler and Winter 2016	Information sharing in enterprise social systems	Organization (norms, social cohesion)
Poba-Nzaou and Raymond 2016	ERP implementation and risk management	Organization (structure and resources, existing organizational technology architecture); ERP project (stakeholders, supplier and solution alternatives)

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Newell 2015	Managing knowledge and managing knowledge work	Organization; nation (social structure, culture); practice
Frisk et al. 2015	IS evaluation in public sector projects	Organization (culture and approach to value measurement of IT)
Lioliou and Zimmermann 2015	IT outsourcing	Vendor/client social ties (structural, cognitive, relational)
Constantiou and Kallinikos 2015	Big data in strategy and decision making	Structure of decision making process, business ecosystems; technology ecosystems
Hsu et al. 2014	The role of IT in risk management	Regulatory environment, industry conditions, organization (language and norms, training and structure)
Ravishankar 2013	Ambiguity in public ICT innovations	National institutional conditions
Selander et al. 2013	Peripheral actors role in digital ecosystems	Organization and business ecosystems (innovation capabilities within an organization; external innovation resources)
Taylor et al. 2012	Risk management practices in IT projects	Organizational maturity; existing IT systems
Blaskovich and Mintchik 2011	Decision making processes and outsourcing	Industry isomorphic influences
Gebauer et al. 2010	Design and management of IS for mobile workforces	Work tasks; mobile technology infrastructure (connectivity, geographic location, interference)
Tow et al. 2010	Information disclosure behavior by Facebook users	Online community
Bouwman and van de Wijngaert 2009	Adoption of mobile technologies	Physical environment; organization (structure); tasks
Jensen et al. 2009	Underlying influences of institutions and the effects on IT implementation	Organizational field, organization/group; situated practice
Uwizeyemungu and Raymond 2009	Measuring IT's contribution to organizational performance	Organization (processes and structures, information architecture)
Lyytinen et al. 2009	Implementation and institutionalization of ERP systems	Organization (structure, political climate, corporate culture); broader social, political and industry wide influences; technologies carrying institutions; history of IT and organizational change in the organization
Vega et al. 2008	E-business diffusion in SMEs	National system of innovation (economic, social, political, organizational, institutional, and other factors that influence the development, diffusion, and use of innovations); public programs for IT diffusion
Igira 2008	Health information systems adoption in developing countries	Organization (culture, norms and practices)
Mathiassen and Sørensen 2008	Information services within an organizations framework	Organization (employee practices and approaches to information handling and decision making)
Kawalek and Hart 2007	Management of e-learning	Communities of practice across organizations
Cho et al. 2007	Resilience capacity and adoption of telehealth innovations	Competing organizational interests, work practices, IT infrastructure, economic conditions, commercial pressures
Ågerfalk and Eriksson 2006	Usability of IT systems	Social norms that govern social action; social goals and values
Journal of Management Information Systems		
Baird et al. 2017	Post adoption technology assimilation	Small physician practice setting; interactions within a community that spans across these practice settings

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Lai et al. 2016	Technology adoption and assimilation	National culture and business models
Sen and Borle 2015	Risk of data breach	Organization (location), industry, history of data breaches
Li et al. 2015	Financial market surveillance systems	Financial market (traders, platform and processes) and activity and market information (news and reports)
Huber et al. 2014	Contractual and relational governance in IS outsourcing	The outsourcing task, client and vendor organizations (goal conflict and goal misalignment)
Qiu et al. 2014	Prediction markets	Social network (structure)
Wan et al. 2012	Self-regulated e-learning	Job (intellectual demand) and the organization (cooperative group norms)
Chai et al. 2011-12	Bloggers' knowledge sharing	Blogging community (trust, reciprocity, social ties)
Suh et al. 2011	Virtuality and social networks	Virtual group (geographic/temporal dispersion and technological support); social network
Xu et al. 2010-11	Task and social information seeking	Network of people who provide employees with information for their tasks and for their social relations
Xu et al. 2009-10	Push-pull in privacy calculus	Industry (self-regulation); government (regulation about personal information disclosure)
Bostrom et al. 2009	Information systems as sociotechnical systems	Organizational work system (rules, resources, and capabilities available)
Zhang et al. 2007	Group decision making	National culture, group diversity, technology (the degree to which communication medium allows for awareness of presence of others)
Kim et al. 2005-06	Electronic information transfer in B2B supply channel relationships	Supply chain (uncertainty of demand concerning the products exchanged between the buyer and the supplier of a supply chain; technological uncertainty of the channel transaction)
Gallivan et al. 2005	Training and IT usage	Coworkers in the workplace (their perception of training quality and attitude towards IT)
Lee 2003-04	Context-reflective data quality problem solving	Situated practice; paradigms (disciplines-based rules), goals, roles (data collector, data user, data administrator, etc.)
Nidumolu et al. 2001	Knowledge management in situated learning	Communities of practice within organizations
Journal of Strategic Information Systems		
Aversa et al. 2018	Decision Support Systems failure	Social and material (decision making technologies) practice of decision making
Ravichandran 2018	IT and organizational agility	Organization (IT competence, innovation capacity)
Marjanovic and Cecez-Kecmanovic 2017	Datification in open government IS	Data producing and data using activities of government agents
Spagnoletti et al. 2015	Design for social media engagement	Network of patients, professionals and intermediaries; social media platform
Popovič et al. 2014	Use of information systems	Organization (information sharing values)
de Vaujany et al. 2013	The formation of organizing visions	Discourses, micro-practices and artefacts
Montazemi et al. 2012	Know-how transfer between MNC units	A MNC's social capital (embedded social ties between units, institutional shared vision of the units, interorganizational trust of the units)
Nolan 2012	Strategic IT leadership	Organizational structure, IT ecosystem, history of change and IT in an organization

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Pillay et al. 2012	Organizational and information systems change	Organizational leadership, learning processes and culture
Cordella and Iannacci 2010	Information systems in the public sector	Government administration reforms
Petrini and Pozzebon 2009	Business intelligence systems in the management of sustainability	Organizational factors (business strategy, stakeholders, processes, and training and education) and economic, social and environmental indicators
Li et al. 2008	Initial trust formation in organizational information systems	Organizational and technology factors providing situation normality and structural assurance
Boonstra and de Vries 2008	Design and implementation of interorganizational information systems	Interorganizational network of stakeholders
Wastell 2006	GIS in evidence-based policy making	Micro-politics in multi-agency partnerships in government; outside pressures from NPM policy
Boersma and Kingma 2005	ERP transformation and organizational adaptation	Organizational culture, ERP technology
Nandhakumar et al. 2005	ERP implementation	Organization (political and cultural forces)
Soh and Sia 2004	ERP-organization misalignments	National and industry related institutional pressures; organizational structures
Wagner and Newell 2004	ERP and best practice transfer	Organization (epistemic cultures)
Hsiao 2003	Distrust in electronic marketplace	A society's culture of economic exchange
Urquhart 2001	Analyst-client interaction in systems development	Organization (culture, the history of the ISD project, professional relationships)
Merali 2000	Knowledge management process	Organization (socially situated activity of learning and doing; formal and informal structures for communication and coordination)
Fowler 2000	AI-based knowledge management	Organization (core business processes)
Kern and Willcocks 2000	IT outsourcing relationships	Organization (past experience of outsourcing; financial, business, technical and political expectations; objectives)
MIS Quarterly		
Mo et al. 2018	Matching solvers to tasks on crowdsourcing platforms	The crowdsourcing platform; a crowd of solvers
Srivastava and Chandra 2018	Trust in virtual collaboration	Virtual workplaces
Zhang 2017	Job performance with knowledge management systems	Task and organization (leadership)
Sykes and Venkatesh 2017	ERP use and job performance	Social network at the work place
Chen and Zahedi 2016	Individuals' internet security perception and behavior	Nation state (culture)
Andrade and Doolin 2016	IT use by refugees	Social setting in host country
Kim et al. 2016	Impact of knowledge management systems usage	Task environment and knowledge sources
Lin et al. 2015	Developmental impact of IT	Organizational and socio-political setting of IT project
Su 2015	Intercultural sensemaking	Global IT outsourcing
Singh et al. 2015	Path of technological innovation	Organization (processes, opportunities)
Sykes 2015	Employee outcomes from the use of enterprise systems	Organizational setting (support structures, work peers)

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Scherer et al. 2015	Self-service technology use. RQ: how IT-based self-service affects customer retention	The task of the service, customers (skills, preferences, abilities), time
Fang et al. 2014	Trust, satisfaction and online purchase intention	Institutional mechanisms safeguarding e-commerce
Marett et al. 2013	Use of bypass systems in long-haul trucking	Industry (competition, regulation) and organizational conditions (support
Njihia and Merali 2013	Public sector IT projects	National and global socio-economic and political conditions; long time period
Volkoff and Strong 2013	IT and organizational change	Social structures, preexisting agency; long time duration for the actualization of change
Polites and Karahanna 2013	Adoption of IS habits/routines	Organization (task sequences, work routines)
Sarker et al. 2012	Value cocreation in B2B	Alliance of software vendor and partners (governance, collective strength and power/politics)
Rai et al. 2012	IT-enabled inter-firm value cocreation	Supply chain process in the logistics industry
Lu and Ramamurthy 2011	IT and organizational agility	Organization (size, age investment in IT); industry
Nan 2011	IT use patterns	Social organizational setting
Smith et al. 2011	IS privacy	Type of information collected; sector; political situation; technology application
Gray et al. 2011	Social bookmarking and employee innovation	Social network of employees
Morris and Venkatesh 2010	IT and job satisfaction	Job arrangements in organizations (skill variety, autonomy, feedback)
Rai et al. 2009	Offshore IS projects	Organization (culture)
Xue et al. 2008	IT investment decision processes	Organizational characteristics (IT investment level, centralization, IT function power), external influence
Avgerou and McGrath 2007	IS and organizational change	Social environment of organizations
Ahuja et al. 2007	IT professionals' turnover	Work-family situations
Miranda and Kim 2006	IS outsourcing decisions	Professional and political institutional environment
Mårtensson and Lee 2004	Action research on IS	Domains of scientific knowledge; practitioners' professional knowledge and praxis
Subramani 2004	Supplier benefits from supply chain management systems	Interorganizational business processes and domain knowledge
Lamb and Kling 2003	IT use	Multiple social contexts
Sharma and Yetton 2003	IS implementation	Institutional setting of implementation
Orlikowski and Barley 2001	IT and organizational change	Institutional aspects of organizations
Lim and Benbasat 2000	Individual users' perceptions of information systems	Organization (individual members' knowledge and groups' norms, tasks and structure)
Cooper 2000	Creativity in IT and organizational change	Group characteristics

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