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New IS Vision in Industry Scenarios

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Professional Development Symposia Proposal for AMCIS 2020

Title and Category

Title	<i>New IS Vision in Industry Scenarios</i>
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Abstract

Business researchers have recently realized the need for innovative information systems and their congruence in industry anatomies. Managing businesses in periodic dimensions are becoming complex. Handling different types of data, rapid change of business rules and resources existing in multiple domains and systems, is challenging. Besides, the development and implementation of information systems have added challenges when industries operate in various geographic locations. Issues associated with the existing information system (IS) artefacts must be addressed before planning and developing new business IS to attain additional benefits. The proposed BIS architectures align different operations and organizational systems, in addition to their cautious implementations. Sustainable production is the target and requirement while optimizing resources and revenues. The purpose of the Professional Development Symposia (PDS) is to prepare BIS developers and evaluators, strategizing and putting in place the necessary logistic requirements for IS implementations. The BIS architecture must manifest with IS artefact designs and business data artefacts in ecologies, where manufacturing, production, and distribution, including the delivery of quality products and services are harnessed through the implementation of IS artefacts. The architecture covers a variety of applications and business scenarios. The data science and business analytics are additional perspectives of the PDS program.

Symposium Leader(s) Information *Please provide requested information*

Name:	Dr Shastri L Nimmagadda, Dr Aneesh Krishna and Dr Torsten Reiners
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Speakers' background, description of symposium and envisioned activities during the session

Shastri L Nimmagadda is currently a Research-fellow at School of Management, Business Information Systems, Curtin Business School. Shastri worked for several petroleum operating and service, including energy companies in India, Australia, USA, Uganda, Kuwait, Abu Dhabi, Egypt, Malaysia, Colombia, Indonesia and Russia. He completed his M Tech and PhD in Petroleum Geophysics from the Indian Institute of Technology, Kharagpur. He obtained his Master of Information Technology with distinction and PhD in Information Systems from Curtin University of Technology,

Australia. Current industry-research interests include big data modelling, data integration, warehouse modelling, and processing, interpretation and knowledge management including research in domain applications. Shastri has published and presented more than 130 research and technical papers in various international journals and conference proceedings.

Aneesh Krishna is currently an Associate Professor with the School of Electrical Engineering, Computing and Mathematical Sciences, Curtin University, Australia. He holds a Ph.D. in computer science from the University of Wollongong, Australia. His research interests include AI for software engineering, model-driven development and evolution, conceptual modelling, formal methods, requirements engineering, data mining, bioinformatics, and renewable energy systems. He has published more than 120 articles in different journals and international conferences. His research is (or has been) funded by the Australian Research Council (ARC) and various Australian government agencies (like NSW State Emergency Service) as well as companies such as Woodside Energy, Amristar Solutions, Autism West Support Incorporated, BW Solar Australia, Dementia Training Australia, and Andrew Corporation (attracted over \$1.2 million in research funding in Australia). He serves as an assessor (Ozreader) for the ARC. He has been on the organising committee, served as invited technical program committee member of many conferences and workshop in the areas related to his research.

Torsten Reiners is a Senior Lecturer in Logistics and Supply Chain at the School of Management and director of the Logistic Research Cluster exploring the implication of the urban expansion on logistics infrastructure and agricultural supply chains. With the background in operations research, simulation, mathematical modelling, algorithm development, data visualisation, and data analytics using, among others, clustering, logic analysis of data, and sentiment analysis, his research is exploring cross-disciplinary challenges and the application of theoretical frameworks in new, academic or business, contexts. Current research involves, among other, the use of virtual reality and phenomenology in health and safety training in logistics, sentiment analysis to counteract the bull-whip effect in supply chains, event-studies on recalls and sustainable energy, sustainable information systems in oil and gas, and waste prevention in food supply chains. Recent publications (published and in revision) include work on ontologies in oil and case, sentiment analysis in the supply chain, event studies, and logic analysis of data.

Debates on business research are encouraged in the PDS with innovative BIS design and development in industry applications, in which we can interpret new insights of business alignments, needed for successful businesses. Researchers and industry experts may discuss case studies, including new BIS research architecture design, development and implementation.

Group Discussions, Debate on Industry Case Histories and Thoughts and Future Outlook of IS can be discussed.

Special requirements

Regular equipment includes a projector and a screen. Microphones can be made available based on the size of the room and the number of attendees.

A overhead projector is needed.

Internet will be provided in the meeting rooms, but **no computers will be provided.**

Audience/Participants

Industry professionals and academic researchers

Maximum number of audience/participants you expect to attend: **15**

(Optional) List any technology or resources audience/participants are required to bring to the event:

Preferred Room Configuration: *Please select configuration or enter other request*

Rounds (i.e., roundtables)

Classroom (i.e., rows of seats with tables for writing)

Theater (rows of seats without tables or desks for writing)

Other room configuration request: