

Lakshmi Narayana Nittala, Ph.D.

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EMPLOYMENT

Assistant Professor

(August 2017 - Current)

Department of MIS, OM and Decision Sciences

University of Dayton, Ohio

Technologist

(May 2006 to July 2011)

Novellus Systems, San Jose – California

- R & D and technology lead for Low-k Flowable Dielectric films, led onsite technical support teams at major Asian semiconductor device manufacturers, worked on technology strategy with executive management.

EDUCATION

Ph.D. (Innovation, Technology & Operations)

2017

Rady School of Management, University of California San Diego

Dissertation: Designing Innovation Contests

Doctoral Committee: Prof. Vish Krishnan (Chair), Prof. Sanjiv Erat, Prof. Hyoduk Shin, Prof. Jim Andreoni and Prof. Yuval Rottenstreich

Ph.D. (Materials Science and Engineering)

2006

University of Illinois at Urbana-Champaign

B. Tech. (Materials and Metallurgical Engineering)

1999

Indian Institute of Technology Kanpur, India

RESEARCH INTERESTS

Themes : New cost efficient models of Innovation including Open Innovation and Product Development, Service Innovation, Creativity

Methodologies : Quantitative modeling, Experimental and Behavioral Economics

RESEARCH PAPERS

Designing Internal Innovation Contests (Job Market Paper), with Vish Krishnan

(Revise and Re-submit (Major Revision) at *Management Science*)

Designing Product Lines with Higher Aggregate Environmental Quality, with Paul Lacourbe and Vish Krishnan (in preparation for resubmission to *Production and Operations Management*)

Managing Exploration and Execution, with Sanjiv Erat and Vish Krishnan (in preparation for Submission to *Management Science*)

Competition and Creativity: A Process View, with Sanjiv Erat and Vish Krishnan (in preparation for submission to *Management Science*)

TEACHING INTERESTS

Operations Management, Supply Chain Management, New Product Development, Project Management, Service Operations, Business Statistics

TEACHING EXPERIENCE

Instructor (Overall Instructor Rating: 4.78/5)

Co-taught “Topics in Operations and Technology: Service Innovation” in the Executive Working MBA program, Summer 2016.

- Conducted case discussions on data driven decision making.
- Taught sessions on product design using tools for Prototyping On Paper (POP).

Course Preparation

Authored mini cases as part of the course content development for the undergraduate course “Innovation in Service Enterprises”.

Teaching Assistant

Taught review sessions as the teaching assistant for the following courses:

- Operations, Information Systems and Data Analysis (Fall 2013: Executive Working MBA program)
- Innovation in Service Enterprises (Spring 2015, Spring 2016: Undergraduate)
- Service Operations and Innovation (Summer 2014, Summer 2015: Executive Working MBA program)
- Quantitative Analysis (Fall 2014: Executive Working MBA program)
- Project Management (Spring 2014: Executive Working MBA program)
- Supply Chain Management (Summer 2014: Executive Working MBA program)

INVITED PRESENTATIONS

Lakshmi Nittala, Sanjiv Erat and Vish Krishnan, “Managing Exploration and Execution” Production & Operations Management Society annual conference 2015, Washington DC

Lakshmi Nittala, Sanjiv Erat and Vish Krishnan, “Managing Exploration and Execution”, INFORMS Annual Conference 2015, Philadelphia

Lakshmi Nittala, Sanjiv Erat and Vish Krishnan, “Designing Internal Innovation Contests”, INFORMS Annual Conference 2016, Nashville

Lakshmi Nittala, Sanjiv Erat and Vish Krishnan, “Creativity and Competition: A Process View”, INFORMS Annual Conference 2016, Nashville

Lakshmi Nittala, Sanjiv Erat and Vish Krishnan, “Designing Internal Innovation Contests”, Production & Operations Management Society annual conference 2017, Seattle

PATENTS

Granted

- US 8,278,224 B1: Flowable Oxide Deposition using Rapid Delivery of Process Gases
- US 8,058,179 B1: Atomic Layer Removal Process with Higher Etch Amount
- US 8,685,867 B1: Pre-metal Dielectric Integration Process
- US 8,728,958 B2: Gap-fill Integration
- US 9,064,684 B1: Flowable Oxide Deposition using Rapid Delivery of Process Gases (Divisional Application)

Pending

- US 2012/0149213 A1 : Bottom-up Fill in High Aspect Ratio Trenches
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PROFESSIONAL AFFILIATIONS

INFORMS

Production and Operations Management Society (POMS)

PUBLICATIONS (Materials Science & Engineering)

“Hydrogen induced modification of the medium range structural order in amorphous silicon films”

L N Nittala, S Jayaraman, B A Sperling, J R Abelson, Appl. Phys. Lett. 84, 241915 (2005)

“Fluctuation microscopy evidence for enhanced nanoscale structural order in polymorphous silicon thin films”, T Nguyen-Tran, V Suendo, and P Roca i Cabarrocas, L N Nittala, S N Bogle, and J R Abelson, J. Appl. Phys. 100, 094319 (2006)

“Nanometer-scale order in amorphous Ge₂Sb₂Te₅ analyzed by fluctuation electron microscopy”, M H Kwon, B S Lee, S N Bogle, L N Nittala, S G Bishop, J R Abelson, Appl. Phys. Lett. 90, 021923 (2007)