



SRA Elections 2020

Candidate for Councilor

Roshanak (Roshi) Nateghi

Assistant Professor, School of Industrial Engineering, Purdue University

BIO:

Professor Nateghi's interdisciplinary research is at the nexus of engineering infrastructure, data science and climate science. Her research program focuses on advancing the theory and practice of risk and resilience analysis through developing advanced data-driven techniques to facilitate better anticipation and mitigation of both rapid- and slow-onset hazards. Her research has been funded by numerous NSF programs including the Science, Engineering and Education for Sustainability (SEES), Critical Resilience Interdependent Infrastructure Systems and Processes (CRISP), Humans, Disasters and the Built Environment (HDBE), and Civil Infrastructure Systems (CIS). She has published over 35 articles in peer-reviewed journals related to the topic of risk and resilience analysis, and has been a contributing member of the Indiana Climate Change Impact Assessment. She is the Research Column Editor for *Decision Analysis Today: The Newsletter of the INFORMS Decision Analysis Society* (2016-present), has served on the Editorial Board for the journals of *Civil Engineering and Environmental Systems* (2017-present) and *Risk Analysis* (2018-present), and more recently has contributed as the Associate Area Editor for the Mathematical Modeling track in *Risk Analysis* (2019-present).

Professor Nateghi served as the Vice Chair (2017) and Chair (2018) of the Engineering and Infrastructure Specialty Group, and, in her role as Chair-Elect, participated in the conference scheduling meeting. Since 2008, she has regularly presented in and organized symposia at the Annual Meetings and is a frequent contributor to the *Risk Analysis Journal*. She is excited to continue working closely with other members of the SRA community to serve the society and help raise its profile, particularly in times where risks of global magnitude, from pandemics to climate change, warrant the need for knowledge and expertise in risk analysis even more than ever.

She completed her undergraduate degree in Mechanical Engineering at Imperial College London (2006), and received her MSE (2009) and PhD (2012) degrees in Environmental Engineering at Johns Hopkins University.

STATEMENT OF GOALS

Given the unprecedented global challenges faced today, there is an ever-increasing role for the Society for Risk Analysis to serve as the leading knowledge powerhouse in providing guardrails and pathways to mitigate risks. If elected as a Councilor, I aim to raise the profile of the society by (a) strengthening engagements with junior members of the society, crowdsourcing creative means for inspiring our young professionals through various mechanisms such as open challenge competitions on various themes within risk analysis, and widely disseminating the knowledge generated by the winning teams and other research outcomes beyond the society; (b) enhancing the digital presence of the foundational knowledge created by the society; and (c) increasing the society's impact by disseminating the knowledge generated by SRA members beyond academic outlets and engaging with strategic networks to bring cutting-edge risk research closer to critical decision-making.