Dr. Reena Kasana

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Educational Qualifications

Jawaharlal Nehru University, New Delhi

- Ph.D., Geographic Routing in Vehicular Ad-hoc Networks ; 2013-2018
- M.Tech (Computer Science and Technology); 2011-2013

University of Delhi, New Delhi
- M.Sc.(Informatics); 2008-2010
- B.A.Sc. (Electronics); 2005-2008

Work Experience

Department of Computer Science, University of Delhi, India
- Assistant Professor, Joined in August 2021

Radix Analytics Pte Ltd, Ahmedabad, India
- Software Engineer, June 2020- August 2021

Smart Consulting Pte Ltd, Singapore
- Project Manager, August 2019 - February 2020.
- Worked at the client site (Schroders Investment Management, Singapore)

Department of Computer Science, University of Delhi, India
- Assistant Professor (Ad-hoc), July 2018- July 2019

Research Experience

**Jawaharlal Nehru University (JNU), New Delhi, India MTech-Ph.D. Research
Project:**

- Development of a location error resilient geographical routing protocol to reduce the impact of location inaccuracy in measurement in the highly dynamic mobile environment.
- Development of a channel selection framework considering two channel quality parameters namely, Channel access delay and signal-to-interference ratio (SIR).
- Proposed and evaluated a geographic routing protocol considering shadowing and multipath fading environments.
- Development of time-stable geocast routing protocol for informing vehicles after an accident in an urban vehicular environment.

Publications

Journal:

1. Reena Kasana, Sushil Kumar, Omprakash Kaiwartya, Rupak Kharel, Jaime Lloret, Naman Aslam, Tong Wang, "Fuzzy-based Channel Selection for Location-Oriented Services in Multichannel VCPS Environments" *IEEE Internet of Things Journal,* 5.6 (2018): 4642-4651
2. Reena Kasana, Sushil Kumar, Omprakash Kaiwartya, W. Yan, Y. Cao, A.H. Abdullah, "Location Error Resilient Geographical Routing for Vehicular Ad-hoc Networks", *IET Intelligent Transport Systems,* Vol. 11, Issue. 8, pp. 450-458.

Conference Proceedings:

1. Reena Kasana, Sushil Kumar, "Reliable Geographic Routing Protocol for Vehicular Ad-hoc Networks under Shadowing and Multipath Environments" *International Conference on Information and Communications Technology (ICOIACT 2018),* IEEE Indonesia.
2. Reena Kasana, Sushil Kumar, Omprakash Kaiwartya, "Towards Location Error Resilient Geographic Routing for VANETs", *International Conference on Computing, Communication and Automation (ICCCA 2017)*, pp. 691-697, IEEE India
3. Reena Kasana., Sushil Kumar, "Multimetric Next Hop Vehicle Selection for Geocasting in VANETs", *International Conference on Computational Intelligence and Communication Technology (CICT),* pp. 400-405, Ghaziabad, IEEE India.
4. O. Kaiwartya, S. Kumar and Reena Kasana**,** "Traffic light based time stable geocast (T-TSG) routing for urban VANETs," *International Conference on Contemporary Computing (IC3),* pp.113-117, IEEE India.

Awards and Honours

- **UGC-NET Junior Research Fellowship,** 2012-2017
- **IEEE ICOIACT Student Travel Grant** Award Winner, 2018
- **Session Chair** in IEEE Conference ICOIACT 2018
- **Program Committee Member** of NETCRYPT 2019
- **Workshop organizer** of " Cyber security and Cyber laws" workshop held on 25-26th March 2019
- **Reviewer** of IEEE Internet of Things Journal, IET Intelligent Transportation Systems, Hindawi Journal of Computer Networks and Communications