

Rita Singh

Associate Professor at Carnegie Mellon University

Pittsburgh, PA, US

Rita Singh works on core algorithmic aspects of computer voice recognition and artificial intelligence applied to voice forensics.

Biography

Rita Singh works on core algorithmic aspects of computer voice recognition and artificial intelligence applied to voice forensics. Her focus is on the development of technology for the automated discovery, measurement, representation and learning of the information encoded in voice signal for optimal voice intelligence. Her work seeks to enable computing machines to not only recognize the content of human speech better in general, but also to understand and respond to humans by gauging their persona, their intent and their status vis-a-vis their environment from their voice alone, with an acuity that surpasses that of the human brain. This part of her research represents an intersection of the areas of AI and voice forensics. She continues to work toward making voice intelligence algorithms work much better than currently possible in high-noise and other kinds of complex environments, using minimal external (human-generated) knowledge.

Industry Expertise

Information Technology and Services, Computer/Network Security

Areas of Expertise

IoT Security and Privacy, Formal Methods, AI and ML for Security, Cryptography, Emerging Applications Security, Systems Security, Blockchain

Education

National Geophysical Research Institute of the Council of Scientific and Industrial Research

Ph.D. Geophysics

Banaras Hindu University:

M.S. Exploration Geophysics

Banaras Hindu University

B.S. Physics

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