

Dinesh Bharadia

Publications and Papers

[Google Scholar link](#) shows that publications have a total citation count of more than 1800.

- Under Submission "Backscattering Ambient ISM Band Signals"
Pengyu Zhang, **Dinesh Bharadia**, and Sachin Katti
- NSDI 2017 Accepted paper, "moVR: Enabling High-Quality Untethered Virtual Reality"
Omid Abari, **Dinesh Bharadia**, Austin Duffield, and Dina Katabi
- SENSYS 2016 "HitchHike: Practical Backscatter Using Commodity WiFi"
Pengyu Zhang, **Dinesh Bharadia**, Kiran Joshi, and Sachin Katti
- HOTNETS 2016 "Cutting the cord in virtual reality"
Omid Abari, **Dinesh Bharadia**, Duffield Austin, and Dina Katabi
- SIGCOMM 2016 "NUMFabric: Fast and Flexible Bandwidth Allocation in Datacenters"
Kanthi Nagaraj, **Dinesh Bharadia**, Hongzi Mao, Sandeep Chinchali, Mohammad Alizadeh, Sachin Katti
- SIGCOMM 2016 Demo: "Enabling Backscatter Communication among Commodity WiFi Radios"
Pengyu Zhang, **Dinesh Bharadia**, Kiran Joshi, and Sachin Katti
- SIGCOMM 2015 "BackFi: High Throughput WiFi Backscatter"
Dinesh Bharadia, Kiran Joshi, Manikanta Kotaru and Sachin Katti
- SIGCOMM 2015 "SpotFi: Decimeter level localization using wifi"
Manikanta Kotaru, Kiran Joshi, **Dinesh Bharadia** and Sachin Katti
- NSDI 2015 "Wideo: Fine-grained device-free motion tracing using rf backscatter"
Kiran Joshi, **Dinesh Bharadia**, Manikanta Kotaru and Sachin Katti
- SIGCOMM 2014 "FastForward: fast and constructive full duplex relays"
Dinesh Bharadia and Sachin Katti
- SIGCOMM 2014 Demo: "Robust full duplex radio link"
Dinesh Bharadia, Kiran Joshi and Sachin Katti
- NSDI 2014 "Full duplex MIMO radios"
Dinesh Bharadia and Sachin Katti
- HOTNETS 2013 "Full duplex backscatter"
Dinesh Bharadia, Kiran Joshi and Sachin Katti
- SIGCOMM 2013 "Full duplex radios"
Dinesh Bharadia, Emily McMillin and Sachin Katti
- BMC Bioinformatics 2013 "QualComp: a new lossy compressor for quality scores based on rate distortion theory"
Idoia Ochoa, Himanshu Asnani, **Dinesh Bharadia**, Mainak Chowdhury, Tsachy Weissman and Golan Yona
- NAS 2013 "Deterministic matrices matching the compressed sensing phase transitions of Gaussian random matrices"
Hatef Monajemi, Sina Jafarpour, Matan Gavish, David Donoho, Sivaram Ambikasaran, Sergio Bacallado, **Dinesh Bharadia**, Yuxin Chen, Young Choi, Mainak Chowdhury, and others

- Archive 2012 "Lossy Compression of Quality Values via Rate Distortion Theory"
Himanshu Asnani, **Dinesh Bharadia**, Mainak Chowdhury, Idoia Ochoa, Itai Sharon, Tsachy Weissman
- Mobicom 2011 "Practical, real-time, full duplex wireless"
Jain Mayank, Choi Jung Il, Kim Taemin, **Dinesh Bharadia**, Seth Siddharth, Srinivasan Kannan, Levis Philip, Sachin Katti and Sinha Prasun
- IEEE TCOM 2011 "Relay and power allocation schemes for OFDM-based cognitive radio systems"
Dinesh Bharadia, Gaurav Bansal, Praveen Kaligineedi and Vijay K Bhargava

Patents

- Grant 2015 "Systems and methods for multi-rate digital self-interference cancellation"
Dinesh Bharadia, Jung-II Choi, Mayank Jain, Rajendra Tushar Moorti. US Patent#9276682
- Grant 2015 "Apparatus and method for interference cancellation in communication systems"
Vaneet Aggarwal, **Dinesh Bharadia**, Rittwik Jana, Christopher W. Rice, Nemmara K. Shankaranarayanan. US Patent#9203655
- Filed 2015 "SYSTEMS AND METHODS FOR FREQUENCY-ISOLATED SELF-INTERFERENCE CANCELLATION"
Dinesh Bharadia, Jeffrey Mehlman, Wilhelm Steffen Hahn. Publication#20150333847
- Filed 2015 "SYSTEMS AND METHODS FOR NEAR BAND INTERFERENCE CANCELLATION"
Dinesh Bharadia, Jung-II Choi, Mayank Jain, Jeffrey Mehlman, Steven Hong. Publication#20150280893
- Grant 2015 "Systems and methods for hybrid self-interference cancellation"
Dinesh Bharadia, Jung-II Choi, Mayank Jain, Jeffrey Mehlman. US Patent #9077421
- Filed 2015 "System and method for MAC design of a full-duplex centralized cellular network "
Vaneet Aggarwal, **Dinesh Bharadia**, Rittwik Jana, Christopher W. Rice, Nemmara K. Shankaranarayanan US Patent #9007999
- Grant 2015 "Apparatus and method for interference cancellation in communication systems"
Vaneet Aggarwal, **Dinesh Bharadia**, Rittwik Jana, Christopher W. Rice, Nemmara K. Shankaranarayanan US Patent #9001920
- Filed 2014 "SELF-INTERFERENCE CANCELLATION"
Dinesh Bharadia, Sachin Katti, Emily McMilin Publication #20140348018
- Filed 2013 "SYSTEMS AND METHODS FOR CANCELLING INTERFERENCE USING MULTIPLE ATTENUATION DELAYS"
Dinesh Bharadia, STEVEN HONG, Jeff Mehlman, Sachin Katti Publication #20130301488
- Filed 2011 "ADAPTIVE TECHNIQUES FOR FULL DUPLEX COMMUNICATIONS"
Dinesh Bharadia, Jung Il Choi, Mayank Jain, Sachin Katti, Tae Min Kim, Philip Levis Publication #20120201153