

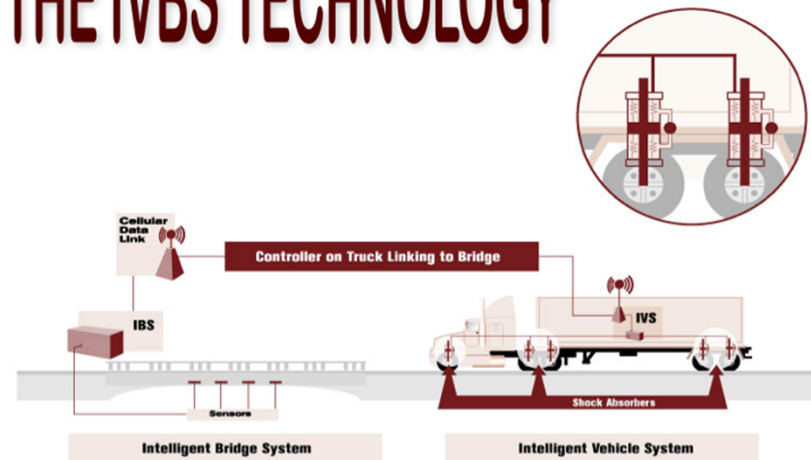
Victor DeBrunner

Electrical and
Computer Engineering

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- My Research Background:
 - Digital Signal and Image Processing
 - Information Theory
 - Computer Vision
- How I'd Like to be Involved in a Smart Cities Project:
 - IoT (smart sensors)
 - Civil Engineering, transportation, and infrastructure management

THE IVBS TECHNOLOGY



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- Recent Publications/Grants
 - V. DeBrunner and J. Patel, "Automatic Fog Detection in Day and Night Images to Improve Highway Driving Conditions," *Proc 2017 Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, Nov 2017.
 - K. Ghuman and V. DeBrunner, "A Proof of Hirschman Uncertainty Invariance to the Order of Rényi Entropy for Picket Fence Signals, and its Relevance in a simplistic recognition experiment," *Proc IEEE ICASSP*, Brisbane, Australia, Apr 2015.
 - P. Xi and V. DeBrunner, "Complexity Reduction in Compressive Sensing using Hirschman Uncertainty Structured Random Matrices," *Proc 2014 Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, Nov 2014.
 - A. Medda and Victor DeBrunner, "Near-field Sub-band Beamforming for Damage Detection in Bridges," *Structural Health Monitoring*, vol. 8, no. 4, pp. 313-329, June 2009.
 - T. Przebinda, V. E. DeBrunner, and M. Özaydın, "The Optimal Transform for the Discrete Hirschman Uncertainty Principle," *IEEE Transactions on Information Theory*, Vol. 47, no. 5, pp. 2086-2090, July 2001.