


Requests for Collaboration

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Research Interests	
<ul style="list-style-type: none">● Modulation classification● Radio environment estimation for Wi-Fi networks● Error probability analysis for error correcting codes● Archery support system development for visually impaired persons	
Creative Achievements in The Application of New and Existing Science and Technology	
<ol style="list-style-type: none">(1) A maximum Likelihood SNR estimation method is developed for fading channels.(2) The number of users are estimated by the backoff distribution in Wi-Fi networks.(3) An access point selection method is proposed using estimated traffic and SNR.(4) A moment-based modulation classification is analyzed for PSK and QAM.(5) Exact error probability analyses are presented for ML and MAP decoding of convolutional codes.(6) A compact archery aiming system is developed by a magnetic sensor.	
Technology (Product, Process, Device, Service etc.) That I Want to Request for Collaboration	
<ul style="list-style-type: none">● Moment methods● Computer simulation techniques for error probability● Theoretical analysis for communication systems	
A List of 5 Key Publications	
<ul style="list-style-type: none">• A Dynamic Configuration Methods for SDN Enabled Networks Based on Database Systems, <i>Trans.IEICE</i>, Vol.J100-B,No.12,pp.1043-1057, December 2017 (in Japanese)• Quadrature Amplitude Modulation Classification by Two Amplitude Moments, <i>Trans.IEICE</i>, Vol.J100-B,No.12,pp.1043-1057, December 2016 (in Japanese)• PSK and QAM Classification by Likelihood under Unknown SNR Condition, <i>Journal of Signal Processing</i>, Vol. 20, No. 4, pp.183-186, July 2016.• Number of Users Estimated by Statistics of Random Backoff Time in WiFi Networks, <i>Proc. RISP International Workshop on Nonlinear Circuits, Communications and Signal Processing</i>, pp.267-270, Honolulu, USA, March 2018.• PAPR Control of OFDM Signals Using Spinal Codes, <i>Proc. International Symposium on Information Theory and Its Applications (ISITA 2016)</i>, pp.789 -792, October 31 -November 2, Monterey	