

Dominic K. C. Ho, FIEEE

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Title:

Professor, Electrical Engineering and Computer Science Department, University of Missouri, USA

Education:

1991: Ph.D., Electronic Engineering, The Chinese University of Hong Kong, Hong Kong
 1988: B.Sc. (First Class Honors), Electronics, The Chinese University of Hong Kong, Hong Kong

Academic Experience:

9/07 – Present: Professor, University of Missouri
 9/03 – 8/07: Associate Professor, University of Missouri
 9/97 – 8/03: Assistant Professor, University of Missouri
 9/96 – 8/97: Research Associate Professor, University of Saskatchewan, Canada
 12/91–12/94: Research Associate, Royal Military College, Canada

Industrial Experience:

1/95 – 8/96: Member of Scientific Staff, Wireless Networks and Speech Services, Bell–Northern Research

Areas of Interests:

- Array Processing: array design, beamforming, microphone array.
- Elder Care: fall detection, health monitoring.
- Localization: passive localization, satellite geolocation, self localization.
- Statistical Signal Processing: radar, sonar, delay and Doppler estimation, Bayesian detection.
- Subsurface Object Detection: ground penetrating radar in handheld, robotic and vehicle platform.
- Wireless Communications: MIMO, cognitive radio.

Research Grants Support:

- Agency for Healthcare Research and Quality (AHRQ)
- Air Force Office of Scientific Research (AFOSR)
- Army Research Office (ARO)

- Defense Advanced Research Projects Agency (DARPA)
- Defense Research Establishment Ottawa, Canada (DREO)
- Ericsson
- Leonard Wood Institute (LWI)
- National Science Foundation (NSF)
- Nortel Networks
- Northrop Grumman
- U.S. Army

Honors and Awards:

- 25th Anniversary Distinguished Alumni Award, College of Engineering, Chinese Univ. of Hong Kong, 2017.
- Senior Faculty Research Award, College of Engineering, Univ. of Missouri, 2014.
- Distinguished Alumni Award, EE Department, Chinese Univ. of Hong Kong, 2012.
- IEEE Fellow (For Contributions to “Active and Passive Signal Source Location Technologies”), since 2009.
- Senior Faculty Research Award, College of Engineering, Univ. of Missouri, 2009.
- Teaching Award, ECE Dept, College of Engineering, Univ. of Missouri, 2006.
- Junior Faculty Research Award, College of Engineering, Univ. of Missouri, 2003.

Professional Activities:

Rapporteur:

- ITU–T (International Telecommunication Union – Standardization) Q16/SG16: Speech enhancement functions in signal processing network equipment, 2013 (Associate Rapporteur).
- ITU–T Q15/SG16: Voice gateway signal processing functions and circuit multiplication equipment / systems, 2009 – 2012.

Editor:

- ITU–T G.160: Voice Enhancement Devices, 2006 – 2013.
- ITU–T G.168: Digital Network Echo Cancellers, 2000 – 2013.
- ITU–T G.799.2: Mechanism for Dynamic Coordination for Signal Processing Functions, 2004 – 2010.

Associate Editor:

- IEEE Trans on Signal Processing, IEEE Signal Processing Society, 1/09 – 12/12 (2nd term), 8/03 – 7/06 (1st term).
- IEEE Signal Processing Letters, IEEE Signal Processing Society, 2/04 – 1/08.

Guest Editor:

- IEEE Signal Processing Magazine: Special Issue on Signal Processing on Assisted Living, 2016.
- EURASIP Journal on Advances in Signal Processing: Special Issue on Object Tracking and Monitoring Using Advanced Signal Processing Techniques, 2011.

Technical Committee:

- Awards Subcommittee Member, Signal Processing Theory and Methods (SPTM) Technical Committee, IEEE Signal Processing Society, 2019 – present.
- Awards Subcommittee Chair, Signal Processing Theory and Methods (SPTM) Technical Committee, IEEE Signal Processing Society, 2017 – 2019.
- Member, Signal Processing Theory and Methods (SPTM) Technical Committee, IEEE Signal Processing Society, 2016 – present.
- Past Chair, Sensor Array and Multichannel (SAM) Technical Committee, IEEE Signal Processing Society, 2015.
- Chair, Sensor Array and Multichannel (SAM) Technical Committee, IEEE Signal Processing Society, 2013 – 2014.
- Vice-Chair, Sensor Array and Multichannel (SAM) Technical Committee, IEEE Signal Processing Society, 2011 – 2012.
- Member, Sensor Array and Multichannel (SAM) Technical Committee, IEEE Signal Processing Society, 2006 – 2016.
- Member, Digital Signal Processing Technical Committee, IEEE Circuits and Systems Society, 2002 – present.

Core Membership, Industrial Standard Development:

- ITU-T (International Telecommunication Union – Standardization) Study Group 16: Lead Study Group on Multimedia Coding, Systems and Applications, 1995–2012.
- North America TIA (Telecommunications Industry Association) Digital Cellular/PCS Standard, 1995–1996.

Conference Organization Committee:

- General Co-Chair, 5th International Conference on Information Communication and Signal Processing (ICICSP2022), 2022.
- Tutorial Co-Chair, IEEE International Conference on Visual Communications and Image Processing (VCIP), Hong Kong, 2020.
- Technical Program Co-Chair, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP-2016), 2014 – 2016.
- Finance Chair, The 4th IEEE Int. Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), San Juan, Puerto Rico, 2011.
- Publicity Chair, The 5th IEEE Sensor Array and Multichannel (SAM) Processing Workshop, Darmstadt, Germany, 2008.

Organization of Invited/Special Session:

- Landmine and Subsurface Object Detection, IEEE International Geoscience and Remote Sensing Symposium, 2004 (IGARSS-2004).
- Advances in Speech Processing and Applications, IEEE International Symposium on Circuits and Systems, 2004 (ISCAS-2004).
- Digital Filter Design and Applications, IEEE International Mid–West Symposium on Circuits and Systems, 2002 (MWSCAS-2002).

Conference Technical Program Committee:

- The 9th IEEE Sensor Array and Multichannel (SAM) Processing Workshop, Rio de Janeiro, Brazil, 2016.
- The 6th IEEE Int. Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), Cancun, Mexico, 2015.
- The 8th IEEE Sensor Array and Multichannel (SAM) Processing Workshop, A Coruña, Spain, 2014.
- The 5th IEEE Int. Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), Saint Martin, 2013.
- The 7th IEEE Sensor Array and Multichannel (SAM) Processing Workshop, Hoboken, New Jersey, 2012.
- The 4th IEEE Int. Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), San Juan, Puerto Rico, 2011.
- The 6th IEEE Sensor Array and Multichannel (SAM) Processing Workshop, Jerusalem, Israel, 2010.

Conference Session Chair/Co–Chair:

- EURASIP European Signal Processing Conf. (EUSIPCO), 2019.
- IEEE Int. Conf. Acoustics, Speech, Signal Processing (ICASSP), 2004 – present.
- IEEE Int. Geoscience and Remote Sensing Symp. (IGARSS), 2004.
- IEEE Int. Symp. Circuits and Systems (ISCAS), 2004 – 2005.
- IEEE Int. Mid–West Symp. Circuits and Systems (MWSCAS), 2002.
- SPIE Defense & Security Symp., 2004 – 2005, 2016, 2017.

Journal Paper Reviewer:

- IEEE Internet of Things Magazine, since 2022.
- IEEE Journal of Selected Topics in Signal Processing, since 2007.
- IEEE Signal Processing Letters, since 1998.
- IEEE Signal Processing Magazine, since 2004.
- IEEE Transactions on Aerospace and Electronic Systems, since 1994.
- IEEE Transactions on Circuits and Systems, Part II, since 1996.
- IEEE Transactions on Geoscience and Remote Sensing, since 2002.
- IEEE Transactions on Signal and Information Processing over Networks, since 2018.
- IEEE Transactions on Mobile Computing, since 2012.

- IEEE Transactions on Signal Processing, since 1993.
- IEEE Transactions on Audio, Speech and Language Processing, since 1998.
- IEEE Transactions on Vehicle Technology, since 2001.
- IEEE Transactions on Wireless Communications, since 2003.
- IEE Electronics Letters, since 1999.
- IEE Proceedings: Radar, Sonar and Navigation, since 1998.
- Digital Signal Processing, ELSEVIER, since 2005.
- Signal Processing, ELSEVIER, since 2007.
- International Journal of Adaptive Control and Signal Processing, since 1997.

External Examiner:

- PhD Thesis, Tel Aviv University, Israel, 2019.
- PhD Thesis, University of Saskatchewan, Canada, 2017.
- PhD Thesis, Nanyang Technological University, Singapore, 2017.
- PhD Thesis, University of South Australia, Australia, 2017, 2021.
- PhD Thesis, Chinese University of Hong Kong, Hong Kong, 2014.
- PhD Thesis, Hong Kong Polytechnic University, Hong Kong, 2010.
- Master Thesis, Hong Kong Polytechnic University, Hong Kong, 2005.
- Master Thesis, The Chinese University of Hong Kong, Hong Kong, 2004.
- Master Thesis, McGill University, Canada, 1997.
- Master Thesis, Royal Military College of Canada, Canada, 1995, 1996, 2000.

Mentorship:

- 1 Post-Doctoral Researcher
- 19 PhD Students
- 31 MS Students

Journal Publications (161):

- (J-1) G. Wang, P. Xiang, and K. C. Ho, "Bias reduced semidefinite relaxation method for 3-D moving object localization using AOA," *IEEE Trans. Wireless Commun.*, vol. 22, no. 11, pp. 7377-7392, Nov 2023.
- (J-2) Y. Wang, K. C. Ho, and Z. Wang, "Robust localization under NLOS environment in the presence of isolated outliers by full-set TDOA measurements," *Signal Process.*, Elsevier, vol. 212, Nov. 2023.
- (J-3) W. Wu, G. Wang, and K. C. Ho, "Multistatic localization by differential time delays and time differences of arrival in the absence of transmitter position," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 59, no. 5, pp. 7020-7034, Oct. 2023.
- (J-4) J. Pei, G. Wang, K. C. Ho, and L. Huang, "Reducing bias for multistatic localization of a moving object by transmitter at unknown position," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 59, no. 5, pp. 5324-5341, Oct. 2023.

- (J-5) T. Jia, H. Liu, K. C. Ho, and H. Wang, "Mitigating sensor motion effect for AOA and AOA-TOA localizations in underwater environments," *IEEE Trans. Wireless Commun.*, vol. 22, no. 9, pp. 6124-6139, Sep. 2023.
- (J-6) Y. Sun, K. C. Ho, Y. Yang, and L. Chen, "An asymptotically optimal estimator for source location and propagation speed by TDOA," *IEEE Signal Process. Lett.*, vol. 30, pp. 1037-1041, Aug. 2023.
- (J-7) D. Lin, G. Wang, K. C. Ho, and L. Huang, "Source localization by frequency measurements in unknown signal propagation speed environments," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 59, no. 4, pp. 3953-3970, Aug. 2023.
- (J-8) H. Li, J. Yuan, G. Fennell, V. Abdulla, R. Nistala, D. Dandachi, K. C. Ho, Y. Zhang, "Recent advances in wearable sensors and data analytics for continuous monitoring and analysis of biomarkers and symptoms related to COVID-19," *Biophysics Reviews*, vol. 4, no. 3, Jul. 2023.
- (J-9) Y. Zhang and K. C. Ho, "Localization of transmitters and scatterers by single receiver", *IEEE Trans. Signal Process.*, vol. 71, pp. 2267-2282, 2023.
- (J-10) K. C. Ho and T.-K. Le, "Integrating AOA with TDOA for joint source and sensor localization," *IEEE Trans. Signal Process.*, vol. 71, pp. 2087-2102, 2023.
- (J-11) Z. Chen, D. B. Headley, L. F. Gomez-Alatorre, V. Kanta, K. C. Ho, D. Pare, and S. S. Nair, "Approaches to characterizing oscillatory burst detection algorithms for electrophysiological recordings," *J. Neuroscience Methods*, vol. 391, May 2023.
- (J-12) G. Wang, R. Zheng, and K. C. Ho, "Elliptic localization of a moving object by transmitter at unknown position and velocity: a semidefinite relaxation approach," *IEEE Trans. Mobile Comput.*, vol. 22, no. 5, May 2023.
- (J-13) W. Wang, G. Wang, C. Hu, and K. C. Ho, "Robust ellipse fitting based on maximum correntropy criterion with variable center," *IEEE Trans. Image Process.*, vol. 32, pp. 2520-2535, Apr. 2023.
- (J-14) Y. Xiao, G. Wang, and K. C. Ho, "Elliptic localization with imperfect clock synchronization for known and unknown propagation speed scenarios," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 59, no. 2, pp. 1468-1481, Apr. 2023.
- (J-15) W. Wang, G. Wang, K. C. Ho, and L. Huang, "Robust TDOA localization based on maximum correntropy criterion with variable center," *Signal Process.*, Elsevier, vol. 205, Apr. 2023.
- (J-16) M. H. Al-Ali and K. C. Ho, "Objective Bayesian approach for binary hypothesis testing of multivariate Gaussian observations," *IEEE Trans. Inf. Theory*, vol. 69, no. 2, pp. 1337-1354, Feb. 2023.
- (J-17) Y. Zhang and K. C. Ho, "Localization by signals of opportunity in the absence of transmitter position," *IEEE Trans. Signal Process.*, vol. 72, pp. 4602-4617, 2022.
- (J-18) Y. Sun, K. C. Ho, Y. Yang, L. Zhang, and L. Chen, "Computationally attractive and statistically efficient estimator for noise resilient TOA localization," *Signal Process.*, Elsevier, vol. 200, art. no. 108663, Nov. 2022.
- (J-19) K. C. Ho, "Localization through transceivers in unknown constant velocity trajectories," *IEEE Trans. Signal Process.*, vol. 70, pp. 3011-3028, 2022.
- (J-20) Y. Sun, K. C. Ho, G. Wang, J. Chen, Y. Yang, L. Chen, and Q. Wan, "Computationally attractive and location robust estimator for IoT device positioning," *IEEE Internet Things J.*, vol. 9, no. 13, pp. 10891-10907, Jul. 2022.

- (J-21) T. Jia, H. Wang, G. Wang, and K. C. Ho, "Localization using time delay and Doppler shift by moving monostatic sensors," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 58, no. 3, pp. 2560-2567, Jun. 2022.
- (J-22) Y. Sun, K. C. Ho, L. Gao, J. Zou, Y. Yang, and L. Chen, "Three dimensional source localization using arrival angles from linear arrays: analytical investigation and optimal solution," *IEEE Trans. Signal Process.*, vol. 70, pp. 1864-1879, 2022.
- (J-23) M. H. Ahmed, K. C. Ho, and G. Wang, "3-D target localization and motion analysis based on Doppler shifted frequencies," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 58, no. 2, pp. 815-833, Apr. 2022.
- (J-24) Y. Yang, J. Zheng, H. Liu, K. C. Ho, Y. Chen, and Z. Yang, "Optimal sensor placement for source tracking under synchronization offsets and sensor location errors with distance-dependent noises," *Signal Process., Elsevier*, vol. 193, Apr. 2022.
- (J-25) M. Al-Ali and K. C. Ho, "Enhanced precoder for secondary user of MIMO cognitive radio in the presence of CSIT uncertainties in the desired and interference links," *Signal Process., Elsevier*, vol. 190, Jan. 2022.
- (J-26) Y. Shuli, G. Wang, and K. C. Ho, "Noise resilient solution and its analysis for multistatic localization using differential arrival times," *Signal Process., Elsevier*, vol. 188, Nov. 2021.
- (J-27) Y. Zhang and K. C. Ho, "Multistatic localization in partially dynamic scenario with only sensor positions available," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 57, no. 5, pp. 3416-3432, Oct. 2021.
- (J-28) C. Jiao, C. Chen, S. Guo, D. Hai, B.-Y. Su, M. Skubic, L. Jiao, A. Zare, and K. C. Ho, "Non-invasive heart rate estimation from ballistocardiograms using bidirectional LSTM regression," *IEEE J. Biomed. Health Inform.*, vol. 25, no. 9, pp. 3396-3407, Sep. 2021.
- (J-29) Y. Wang, K. C. Ho, and L. Huang, "Room geometry estimation using the multipath delays," *IEEE Signal Process. Lett.*, vol. 28, pp. 1380-1384, Jun. 2021.
- (J-30) G. Wang, K. C. Ho, and X. Chen, "Bias reduced semidefinite relaxation method for 3-D rigid body localization using AOA," *IEEE Trans. Signal Process.*, vol. 69, pp. 3415-3430, Jun. 2021.
- (J-31) R. Zheng, G. Wang, and K. C. Ho, "Accurate semidefinite relaxation method for elliptic localization with unknown transmitter position," *IEEE Trans. Wireless Commun.*, vol. 20, no. 4, pp. 2746-2760, Apr. 2021.
- (J-32) X. Chen, G. Wang, and K. C. Ho, "Semidefinite relaxation method for unified near-field and far-field localization by AOA," *Signal Process., Elsevier*, vol. 181, Apr. 2021.
- (J-33) C. Hu, G. Wang, K. C. Ho, and J. Liang, "Robust ellipse fitting with Laplacian kernel based maximum correntropy criterion," *IEEE Trans. Image Process.*, vol. 30, pp. 3127-3141, Feb. 2021. (TIP Featured Article)
- (J-34) T.-K. Le and K. C. Ho, "Joint source and sensor localization by angles of arrival," *IEEE Trans. Signal Process.*, vol. 68, pp. 6523-6534, Nov. 2020.
- (J-35) T. Jia, K. C. Ho, H. Wang and X. Shen, "Localization of a moving object with sensors in motion by time delays and Doppler shifts," *IEEE Trans. Signal Process.*, vol. 68, pp. 5824-5841, 2020.

- (J-36) Y. Wang, G. Wang, S. Chen, K. C. Ho and L. Huang, "An investigation and solution of angle based rigid body localization," *IEEE Trans. Signal Process.*, vol. 68, pp. 5457-5472, 2020.
- (J-37) M. Ahmed, K. C. Ho, and G. Wang, "Localization of a moving source by frequency measurements," *IEEE Trans. Signal Process.*, vol. 68, pp. 4839-4854, 2020.
- (J-38) Y. Zhang and K. C. Ho, "Multistatic moving object localization by a moving transmitter of unknown location and offset," *IEEE Trans. Signal Process.*, vol. 68, pp. 4438-4453, 2020.
- (J-39) Y. Sun, K. C. Ho, and Q. Wan, "Eigenspace solution for AOA localization in modified polar representation," *IEEE Trans. Signal Process.*, vol. 68, pp. 2256-2271, 2020.
- (J-40) T.-K. Le and K. C. Ho, "Algebraic complete solution for joint source and sensor localization using time of flight measurements," *IEEE Trans. Signal Process.*, vol. 68, pp. 1853-1869, 2020.
- (J-41) S. S. A. Al-Samahi, Y. Zhang, and K. C. Ho, "Elliptic and hyperbolic localizations using minimum measurement solutions," *Signal Process.*, Elsevier, vol. 167, Feb. 2020. (Corrigendum: Vol. 168, Mar. 2020).
- (J-42) B. Hao, K. C. Ho, and Z. Li, "Range based rigid body localization with a calibration emitter for mitigating anchor position uncertainties," *IEEE Trans. Wireless Commun.*, vol. 18, no. 12, pp. 5734-5748, Dec. 2019.
- (J-43) T. Jia, K. C. Ho, H. Wang, and X. Shen, "Effect of sensor motion on time delay and Doppler shift localization: analysis and solution," *IEEE Trans. Signal Process.*, vol. 67, no. 22, pp. 5881-5895, Nov. 2019.
- (J-44) Y. Zhang and K. C. Ho, "Multistatic localization in the absence of transmitter position," *IEEE Trans. Signal Process.*, vol. 67, no. 18, pp. 4745-4760, Sep. 2019.
- (J-45) J. M. Malof, D. Reichman, A. Kareem, H. Frigui, K. C. Ho, J. N. Wilson, W.-H. Lee, W. Cummings, and L. M. Collins, "A large-scale multi-institutional evaluation of advanced discrimination algorithms for buried threat detection in ground penetrating radar," *IEEE Trans. Geosci. Remote Sens.*, vol. 57, no. 9, pp. 6929-6945, Sep. 2019.
- (J-46) T.-K. Le and K. C. Ho, "Uncovering source ranges from range differences observed by sensors at unknown positions: fundamental theory," *IEEE Trans. Signal Process.*, vol. 67, no. 10, pp. 2665-2678, May 2019.
- (J-47) G. Wang and K. C. Ho, "Convex relaxation methods for unified near-field and far-field TDOA-based localization," *IEEE Trans. Wireless Commun.*, vol. 18, no. 4, pp. 2346-2360, Apr. 2019.
- (J-48) B.-Y. Su, M. Enayati, K. C. Ho, M. Skubic, L. Despains, J. Keller, M. Popescu, G. Guidoboni, and M. Rantz, "Monitoring the relative blood pressure using a hydraulic bed sensor system," *IEEE Trans. Biomed. Eng.*, vol. 66, no. 3, pp. 740-748, Mar. 2019.
- (J-49) J. Jiang, G. Wang, and K. C. Ho, "Sensor network based rigid body localization via semidefinite relaxation using arrival time and Doppler measurements," *IEEE Trans. Wireless Commun.*, vol. 18, no. 2, pp. 1011-1025, Feb. 2019.

- (J-50) Y. Sun, K. C. Ho, and Q. Wan, "Solution and analysis of TDOA localization of a near or distant source in closed-form," *IEEE Trans. Signal Process.*, vol. 67, no. 2, pp. 320-335, Jan. 2019.
- (J-51) Z. Liu, K. C. Ho, X. Xu, and J. Yang, "Moving target indication using deep convolutional neural network," *IEEE Access*, vol. 6, no. 1, pp. 65651-65660, Dec. 2018.
- (J-52) C. Jiao, B.-Y. Su, P. Lyons, A. Zare, K. C. Ho, and M. Skubic, "Multiple instance dictionary learning for beat-to-beat heart rate monitoring from ballistocardiograms," *IEEE Trans. Biomed. Eng.*, vol. 65, no. 11, pp. 2634-2648, Nov. 2018.
- (J-53) Trung-Kien Le, K. C. Ho, and Trung-Hieu Le, "Rank properties for matrices constructed by time differences of arrival," *IEEE Trans. Signal Process.*, vol. 66, no. 13, pp. 3491-3503, Jul. 2018.
- (J-54) A. Al-sharadqah and K. C. Ho, "Constrained Cramer-Rao Lower Bound in errors-in variables (EIV) models: Revisited," *Statistics and Probability Lett.*, Elsevier, vol. 135, pp. 118-126, Apr. 2018
- (J-55) J. Jiang, G. Wang, and K. C. Ho, "Accurate rigid body localization via semidefinite relaxation using range measurements," *IEEE Signal Process. Lett.*, vol. 25, no. 3, pp. 378-382, Mar. 2018.
- (J-56) Y. Wang and K. C. Ho, "Unified near-field and far-field localization for AOA and hybrid AOA-TDOA positionings," *IEEE Trans. Wireless Commun.*, vol. 17, no. 2, pp. 1242-1254, Feb. 2018.
- (J-57) B. Y. Su, K. C. Ho, M. Rantz, and M. Skubic, "Radar placement for fall detection: signature and performance," *J. Ambient Intelligence Smart Environments*, vol. 10, pp. 21-34, Jan. 2018.
- (J-58) M. Al-Ali and K. C. Ho, "Precoding for MIMO channels in cognitive radio networks with CSI uncertainties and for compound capacity," *IEEE Trans. Signal Process.*, vol. 65, no. 15, pp. 3976-3989, Aug. 2017.
- (J-59) L. Rui and K. C. Ho, "A Markov chain monte carlo alternating minimization algorithm for asynchronous relay network localization," *IEEE Wireless Commun. Lett.*, vol. 6, no. 2, pp. 278-281, Apr. 2017.
- (J-60) Y. Wang and K. C. Ho, "TDOA positioning irrespective of source range," *IEEE Trans. Signal Process.*, vol. 65, no. 6, pp. 1447-1460, Mar. 2017.
- (J-61) A. Al-Sharadqah and K. C. Ho, "Second order performance analysis and unbiased estimation for the fitting of concentric circles," *J. Mathematical Imaging Vision*, Mar. 2017.
- (J-62) L. Rosales, B. Y. Su, M. Skubic, and K. C. Ho, "Heart rate monitoring using hydraulic bed sensor ballistocardiogram," *J. Ambient Intelligence Smart Environments*, vol. 9, no. 2, pp. 193-207, Feb. 2017.
- (J-63) L. Rui, S. Chen, K. C. Ho, M. Skubic, and M. Rantz, "Estimation of human walking speed by Doppler radar for elderly care," *J. Ambient Intelligence Smart Environments*, vol. 9, no. 2, pp. 181-191, Feb. 2017.
- (J-64) S. Li and K. C. Ho, "Accurate and effective localization of an object in large equal radius scenario," *IEEE Trans. Wireless Commun.*, vol. 15, no. 12, pp. 8273-8285, Dec. 2016.

- (J-65) L. Yang, L. Yang, and K. C. Ho, "Moving target localization in multistatic sonar by differential delays and Doppler shifts," *IEEE Signal Process. Lett.*, vol. 23, no. 9, pp. 1160-1164, Sep. 2016.
- (J-66) M. Al-Ali and K. C. Ho, "Transmit precoding in underlay MIMO cognitive radio with unavailable or imperfect knowledge of primary interference channel," *IEEE Trans. Wireless Commun.*, vol. 15, no. 8, pp. 5143-5155, Aug. 2016.
- (J-67) F. Ahmad, A. E. Cetin, K. C. D. Ho and J. Nelson, "Signal processing for assisted living: developments and open problems," *IEEE Signal Process. Mag.*, vol. 33, no. 2, pp. 25-26, Mar. 2016.
- (J-68) M. G. Amin, Y. D. Zhang, F. Ahmad, and K. C. Ho, "Radar signal processing for elderly fall detection," *IEEE Signal Process. Mag.*, vol. 33, no.2, pp. 71-80, Mar. 2016.
- (J-69) A. Al-sharadqah and K. C. Ho, "Solutions and evaluations for fitting of concentric circles," *Signal Processing, Elsevier*, vol. 120, pp. 468-479, Mar. 2016.
- (J-70) J. Yin, Q. Wan, S. Yang, and K. C. Ho, "A simple and accurate TDOA-AOA localization method using two stations," *IEEE Signal Process. Lett.*, vol. 23, pp. 144-148, Jan. 2016.
- (J-71) S. Chen and K. C. Ho, "Accurate localization of a rigid body using multiple sensors and landmarks," *IEEE Trans. Signal Process.*, vol. 63, no. 24, pp. 6459-6472, Dec. 2015.
- (J-72) Y. Wang and K. C. Ho, "An asymptotically efficient estimator in closed-Form for 3D AOA localization using a sensor network," *IEEE Trans. Wireless Commun.*, vol. 14, no. 12, pp. 6524-6535, Dec. 2015.
- (J-73) B. Y. Su, K. C. Ho, M. J. Rantz, and M. Skubic, "Doppler radar fall activity detection using the wavelet transform," *IEEE Trans. Biomed. Eng.*, vol. 62, no. 3, pp. 865-875, Mar. 2015.
- (J-74) L. Rui and K. C. Ho, "Efficient closed-form estimators for multistatic sonar localization," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 51, no. 1, pp. 600-614, Jan. 2015.
- (J-75) Z. Ma and K. C. Ho, "A study on the effects of sensor position error and the placement of calibration emitter for source localization," *IEEE Trans. Wireless Commun.*, vol. 13, no. 6, pp. 5440-5452, Oct. 2014.
- (J-76) L. Rui and K. C. Ho, "Bias analysis of the maximum likelihood target location estimator," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 50, pp. 2679-2693, Oct. 2014.
- (J-77) L. Rui and K. C. Ho, "Elliptic localization: performance study and optimum receiver placement," *IEEE Trans. Signal Process.*, vol. 62, pp. 4673-4688, Sep. 2014.
- (J-78) L. Rui and K. C. Ho, "Algebraic solution for joint localization and synchronization of multiple sensor nodes in the presence of beacon uncertainties," *IEEE Trans. Wireless Commun.*, vol. 13, pp. 5196-5210, Sep. 2014.
- (J-79) M. Sun and K. C. Ho, "Optimum sensor placement for fully and partially controlled sensor networks: a unified approach," *Signal Processing, Elsevier*, vol. 102, pp. 58-63, Sep. 2014.
- (J-80) Y. Li, K. C. Ho, and M. Popescu, "Efficient source separation algorithms for acoustic fall detection using a Microsoft Kinect," *IEEE Trans. Biomed. Eng.*, vol. 61, pp. 745-755, Mar. 2014.

- (J-81) D. P. K. Lun, T.-W. Shen, and K. C. Ho, "A novel expectation-maximization framework for speech enhancement in non-stationary noise environments," *IEEE Trans. Audio, Speech, Language Process.*, vol. 22, pp. 335-346, Feb. 2014.
- (J-82) Z. Ma and K. C. Ho, "Asymptotically efficient estimators for the fittings of coupled circles and ellipses," *Elsevier Digital Signal Processing*, vol. 25, pp. 28-40, Feb. 2014.
- (J-83) A. Zare and K. C. Ho, "Endmember variability in hyperspectral analysis," *IEEE Signal Processing Mag.*, pp. 95-104, Jan. 2014.
- (J-84) L. Lin, H. C. So, K. W. Chan, Y. T. Chan, and K. C. Ho, "A new constrained weighted least squares algorithm for TDOA-based localization," *Elsevier Signal Processing*, vol. 93, pp. 2872-2878, Nov. 2013.
- (J-85) Y. Wang and K. C. Ho, "TDOA source localization in the presence of synchronization clock bias and sensor position errors," *IEEE Trans. Signal Processing*, vol. 61, pp. 4532-4544, Sep. 2013.
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