

复杂航天领域动态

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本期目录

【研究动态：复杂环境多声源定位与场景重构】	1
◇ 声源定位 (acoustic source localization)	1
◇ 场景重构 (scene reconstruction)	2
◇ 回波 (acoustic echo)	4
◇ 盲源分离 (blind source separation)	6
◇ 时间反演 (time reversal)	7
◇ 微弱声信号检测 (weak signal detection)	10
【机构扫描】	11
◇ 中国科学院声学研究所	11
◇ 哈尔滨工程大学水声工程学院	15
◇ 洛桑联邦理工学院计算机与通信科学院	16

本期概要：

本期动态专题扫描了复杂环境多声源定位与场景重构及在回波、盲源分离、时间反演、微弱声信号检测，这几个研究方向发表的论文情况。在机构扫描部分，检索了中国科学院声学研究所、哈尔滨工程大学水声工程学院和洛桑联邦理工学院计算机与通信科学院在复杂环境多声源定位与场景重构领域的论文发表情况。

【研究动态：复杂环境多声源定位与场景重构】

随着信息技术的发展,声源定位技术在当今生活的很多领域都有着越来越广泛并且极为重要的应用。比如,在视频会议系统中,语音的识别技术、麦克风阵列语音增强和助听装置等方面。声源定位技术研究是一项涉及声学、信号检测、数字信号处理、电子学、软件设计等诸多技术领域的技术课题。随着计算机技术的迅速发展和人机交互需求的快速增加,声源定位这个课题日益显现其重要性。

◇ 声源定位 (acoustic source localization) ¹

通过检索 EI 数据库,2017 年以来在声源定位研究方向涉及 14 篇最新的研究论文:

- 1. Acoustic source localization in an anisotropic plate without knowing its material properties – A new approach**
Park, Won Hyun (Dept. of Aerospace and Mechanical Engineering, University of Arizona, Tucson; AZ; 85721, United States); Packo, Pawel; Kundu, Tribikram **Source:** *Ultrasonics*, v 79, p 9-17, August 1, 2017
- 2. A new joint localization model using multiple microphone arrays for passive acoustic source localization system**
Kan, Yue (State Key Lab. of Robot Technol. and Syst., Harbin Inst. of Technol. Harbin, Harbin, China); Wang, Pengfei; Sheng, Wentao; Zha, Fusheng; Li, Mantian; Song, Baoyu **Source:** *Proceedings - 2016 9th International Symposium on Computational Intelligence and Design, ISCID 2016*, v 2, p 157-160, January 23, 2017, *Proceedings - 2016 9th International Symposium on Computational Intelligence and Design, ISCID 2016*
- 3. Acoustic source localization by combination of supervised direction-of-arrival estimation with disjoint component analysis**
Anemüller, Jörn (Medical Physics Unit and Cluster of Excellence Hearing4all, Computational Audition Group, Carl von Ossietzky Universität Oldenburg, Oldenburg; 26111, Germany); Kayser, Hendrik **Source:** *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, v 10169 LNCS, p 99-108, 2017, *Latent Variable Analysis and Signal Separation - 13th International Conference, LVA/ICA 2017, Proceedings*
- 4. Acoustic source localization using a polyhedral microphone array and an improved generalized cross-correlation technique**
Padois, Thomas (Department of Mechanical Engineering, École de Technologie Supérieure (ÉTS), Montréal; QC; H3C 1K3, Canada); Sgard, Franck; Doutres, Olivier; Berry, Alain **Source:** *Journal of Sound and Vibration*, v 386, p 82-99, January 6, 2017
- 5. Energy-based acoustic source localization methods: A survey**
Meng, Wei (School of Automation and Electrical Engineering, University of Science and Technology Beijing, Beijing; 100083, China); Xiao, Wendong **Source:** *Sensors (Switzerland)*, v 17, n 2, February 15, 2017
- 6. Direct regressions for underwater acoustic source localization in fluctuating oceans**

¹ EI 数据库检索策略: (("acoustic source localization") WN KY) + (2017) WN YR

- Lefort, Riwal (ENSTA Bretagne, 2 rue François Verny, Brest; 29806, France); Real, Gaultier; Drémeau, Angélique **Source:** *Applied Acoustics*, v 116, p 303-310, January 15, 2017
7. **Multiple-array passive acoustic source localization in shallow water**
Tollefsen, Dag (Norwegian Defence Research Establishment (FFI), Box 115, Horten; 3191, Norway); Gerstoft, Peter; Hodgkiss, William S. **Source:** *Journal of the Acoustical Society of America*, v 141, n 3, p 1501-1513, March 1, 2017
 8. **Sound localization in an anisotropic plate using electret microphones**
Hoseini Sabzevari, S. Amir (Mech. Eng., Ferdowsi University of Mashhad, Iran); Moavenian, Majid **Source:** *Ultrasonics*, v 73, p 114-124, January 1, 2017
 9. **Sketching for nearfield acoustic imaging of heavy-tailed sources**
Fontaine, Mathieu (Inria, Nancy Grand-Est, Nancy, France); Vanwynsberghe, Charles; Liutkus, Antoine; Badeau, Roland **Source:** *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, v 10169 LNCS, p 80-88, 2017, *Latent Variable Analysis and Signal Separation - 13th International Conference, LVA/ICA 2017, Proceedings*
 10. **Improving the efficiency of DAMAS for sound source localization via wavelet compression computational grid**
MA, Wei (School of Aeronautics and Astronautics, Shanghai Jiao Tong University, Shanghai, China); LIU, Xun **Source:** *Journal of Sound and Vibration*, v 395, p 341-353, May 12, 2017
 11. **Near field acoustic localization under unfavorable conditions using feedforward neural network for processing time difference of arrival**
Kovandžić, Marko (University of Niš, Faculty of Mechanical Engineering, Aleksandra Medvedeva 14, Niš; 18000, Serbia); Nikolić, Vlastimir; Al-Noori, Abdulathim; Ćirić, Ivan; Simonović, Miloš **Source:** *Expert Systems with Applications*, v 71, p 138-146, April 1, 2017
 12. **Real-Time Vibration Source Tracking Using High-Speed Vision**
Jiang, Mingjun (Department of System Cybernetics, Hiroshima University, Higashi-Hiroshima; 739-8527, Japan); Gu, Qingyi; Aoyama, Tadayoshi; Takaki, Takes; Ishii, Idaku **Source:** *IEEE Sensors Journal*, v 17, n 5, p 1513-1527, March 1, 2017
 13. **Steered Response Power Localization of Acoustic Passband Signals**
Cobos, Maximo (Departament d'Informàtica, Universitat de València, Burjassot; 46100, Spain); García-Pineda, Miguel; Arevalillo-Herráez, Miguel **Source:** *IEEE Signal Processing Letters*, v 24, n 5, p 717-721, May 2017
 14. **Multiple concurrent sources localization based on a two-node distributed acoustic sensor network**
Xu, Jiaxin (Dept. of Electronic Engineering, School of Electronic and Optical Engineering, Nanjing University of Science and Technology, Nanjing; 210094, China); Zhao, Zhao; Chen, Chunzeng; Xu, Zhiyong **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 10322, 2017, *Seventh International Conference on Electronics and Information Engineering*

◇ 场景重构 (scene reconstruction)²

通过检索 EI 数据库, 2017 年以来在场景重构研究方向涉及 16 篇最新的研究论文:

²EI 数据库检索策略: (("scene reconstruction") WN KY) + (2017) WN YR

1. **Crime Scene Reconstruction: Online Gold Farming Network Analysis**
Kwon, Hyukmin (Korea University, Seoul; 02841, Korea, Republic of); Mohaisen, Aziz; Woo, Jiyoung; Kim, Yongdae; Lee, Eunjo; Kim, Huy Kang **Source:** *IEEE Transactions on Information Forensics and Security*, v 12, n 3, p 544-556, March 2017
2. **Lidar guided stereo simultaneous localization and mapping (SLAM) for UAV outdoor 3-D scene reconstruction**
Gee, Trevor (Department of Computer Science, University of Auckland, New Zealand); James, Jason; Van Der Mark, Wannes; Delmas, Patrice; Gimel'Farb, Georgy **Source:** *International Conference Image and Vision Computing New Zealand*, January 3, 2017, *Proceedings of the 2016 International Conference on Image and Vision Computing New Zealand, IVCNZ 2016*
3. **Indoor Scene Reconstruction Using Near-Light Photometric Stereo**
Liao, Jingtang (Department of Intelligent Systems, Computer Graphics and Visualization Group, Delft University of Technology, Delft, GA; 2600, Netherlands); Buchholz, Bert; Thiery, Jean-Marc; Bauszat, Pablo; Eisemann, Elmar **Source:** *IEEE Transactions on Image Processing*, v 26, n 3, p 1089-1101, March 2017
4. **Large-scale, real-time 3D scene reconstruction on a mobile device**
Dryanovski, Ivan (Department of Computer Science, The Graduate Center, The City University of New York (CUNY), 365 Fifth Avenue, New York, NY; 10016, United States); Klingensmith, Matthew; Srinivasa, Siddhartha S.; Xiao, Jizhong **Source:** *Autonomous Robots*, p 1-23, February 24, 2017
Article in Press
5. **Predictive display for telerobot under unstructured environment**
Wei, Qing (State Key Laboratory of Robotics, Shenyang Institute of Automation, Chinese Academy of Sciences, Shenyang; 110016, China); Liu, NaiLong; Cui, Long **Source:** *Advances in Intelligent Systems and Computing*, v 531, p 1027-1036, 2017, *Intelligent Autonomous Systems 14 - Proceedings of the 14th International Conference IAS-14*
6. **Adaptive direct RGB-D registration and mapping for large motions**
Martins, Renato (Inria, Université Côte d'Azur, Sophia Antipolis, France); Fernandez-Moral, Eduardo; Rives, Patrick **Source:** *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, v 10114 LNCS, p 191-206, 2017, *Computer Vision - 13th Asian Conference on Computer Vision, ACCV 2016, Revised Selected Papers*
7. **Study of large-scale terrain three-dimensional visualization in optoelectronic detection**
Gao, Qiang (Xi'an Institute of Applied Optics, Xi'an, Shaanxi; 710065, China); Jiang, Wentao; Ji, Ming; Pang, Lan; An, Xuezhi; Zhang, Zheng; Huang, Weidong; Zhao, Qinglin; Li, Hui **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 10255, 2017, *Selected Papers of the Chinese Society for Optical Engineering Conferences held October and November 2016*
8. **Static Scene Illumination Estimation from Videos with Applications**
Liu, Bin (Department of Computer Science and Technology, Tsinghua University, Beijing; 100084, China); Xu, Kun; Martin, Ralph R. **Source:** *Journal of Computer Science and Technology*, v 32, n 3, p 430-442, May 1, 2017
9. **HOOFR: An enhanced bio-inspired feature extractor**
Nguyen, Dai-Duong (SATIE - CNRS UMR 8029, Paris-Sud University, Paris-Saclay University, France); El Ouardi, Abdelhafid; Aldea, Emanuel; Bouaziz, Samir **Source:** *Proceedings - International Conference on Pattern Recognition*, p 2977-2982, April 13, 2017, *2016 23rd International Conference on Pattern Recognition, ICPR 2016*
10. **Acoustic Reflector Localization: Novel Image Source Reversion and Direct Localization Methods**
Remaggi, Luca (Centre for Vision, Speech and Signal Processing, University of Surrey, Guildford;

- GU2 7XH, United Kingdom); Jackson, Philip J. B.; Coleman, Philip; Wang, Wenwu **Source:** *IEEE/ACM Transactions on Audio Speech and Language Processing*, v 25, n 2, p 296-309, February 2017
11. **Energy-based multi-view piecewise planar stereo**
Wang, Wei (School of Network Engineering, Zhoukou Normal University, Zhoukou; 466000, China); Hu, Lihua; Hu, Zhanyi **Source:** *Science China Information Sciences*, v 60, n 3, March 1, 2017
 12. **International Conference Image and Vision Computing New Zealand**
Source: *International Conference Image and Vision Computing New Zealand*, January 3, 2017, *Proceedings of the 2016 International Conference on Image and Vision Computing New Zealand, IVCNZ 2016*
 13. **Robust features and accurate inliers detection framework: Application to stereo ego-motion estimation**
Min, Haigen (College of Information Engineering, University of Chang'an, Xi'an, Middle of the South Second Ring Road, 710064, China); Zhao, Xiangmo; Xu, Zhigang; Zhang, Licheng **Source:** *KSII Transactions on Internet and Information Systems*, v 11, n 1, p 302-320, January 30, 2017
 14. **Signature of geometric centroids for 3D local shape description and partial shape matching**
Tang, Keke (University of Science and Technology of China, Hefei, China); Song, Peng; Chen, Xiaoping **Source:** *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, v 10115 LNCS, p 311-326, 2017, *Computer Vision - 13th Asian Conference on Computer Vision, ACCV 2016, Revised Selected Papers*
 15. **An interactive registration method for images to the 3D urban scene model**
Shen, Xiaorong (School of Automation Science and Electrical Engineering of Beihang University, Beijing, China); Hong, Peng; Xiu, Quanfa; Zhang, Tianlong **Source:** *Proceedings - 2016 9th International Symposium on Computational Intelligence and Design, ISCID 2016*, v 2, p 176-179, January 23, 2017, *Proceedings - 2016 9th International Symposium on Computational Intelligence and Design, ISCID 2016*
 16. **Parametric Surface Representation with Bump Image for Dense 3D Modeling Using an RGB-D Camera**
Thomas, Diego (National Institute of Informatics, Tokyo, Japan); Sugimoto, Akihiro **Source:** *International Journal of Computer Vision*, v 123, n 2, p 206-225, June 1, 2017

◇ 回波 (acoustic echo) ³

通过检索 EI 数据库, 2013 年以来回波在复杂环境多声源定位与场景重构研究方向涉及 11 篇最新的研究论文:

1. **Significance-aware filtering for nonlinear acoustic echo cancellation**
Hofmann, Christian (Multimedia Communications and Signal Processing, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Cauerstraße 7, Erlangen, Germany); Huemmer, Christian; Guenther, Michael; Kellermann, Walter **Source:** *Eurasip Journal on Advances in Signal Processing*, v 2016, n 1, December 1, 2016
2. **A combined approach for channel decorrelation in stereo acoustic echo cancellation**

³EI 数据库检索策略: (((("acoustic echo") WN KY) AND (((aco* sou* loc*) or (sco* rec*)) WN KY)) + (2017 OR 2016) WN YR

- exploiting time-varying frequency shifting**
Romoli, Laura (Department of Information Engineering, Università Politecnica Delle Marche, 60131 Ancona, Italy); Cecchi, Stefania; Piazza, Francesco **Source:** *IEEE Signal Processing Letters*, v 20, n 7, p 717-720, 2013
3. **Evaluation of a channel decorrelation approach for stereo acoustic echo cancellation**
Romoli, Laura (Department of Information Engineering, Università Politecnica Delle Marche, Via Breccie Bianche, 60131 Ancona, Italy); Cecchi, Stefania; Piazza, Francesco **Source:** *International Symposium on Image and Signal Processing and Analysis, ISPA*, p 783-788, 2013, *Proceedings of ISPA 2013 - 8th International Symposium on Image and Signal Processing and Analysis*
 4. **Simultaneous optimization of acoustic echo reduction, speech dereverberation, and noise reduction against mutual interference**
Togami, Masahito (Central Research Laboratory of Hitachi Ltd., Tokyo, Japan); Kawaguchi, Yohei **Source:** *IEEE Transactions on Audio, Speech and Language Processing*, v 22, n 11, p 1612-1623, November 1, 2014
 5. **Acoustic echo suppression based on speech presence probability**
Tong, Ying (Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Gu, Yaping **Source:** *International Conference on Digital Signal Processing, DSP*, p 35-38, March 1, 2017, *Proceedings - 2016 IEEE International Conference on Digital Signal Processing, DSP 2016*
 6. **A probabilistic approach to acoustic echo clustering and suppression**
Souden, Mehrez (Center for Signal and Image Processing, Georgia Institute of Technology, 75 Fifth Street NW, Atlanta, GA 30308, United States); Wung, Jason; Juang, Biing-Hwang Fred **Source:** *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, 2013, 2013 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, WASPAA 2013*
 7. **Nautical depth for U.S. navigable waterways: A review**
McAnally, W.H. (Mississippi State Univ, 2 Research Blvd, Starkville; MS, United States); Kirby, R.; Hodge, S.H.; Welp, T.L.; Greiser, N.; Shrestha, P.; McGowan, D.; Turnipseed, P. **Source:** *Journal of Waterway, Port, Coastal and Ocean Engineering*, v 142, n 2, February 1, 2016
 8. **2014 International Conference on Control, Instrumentation, Communication and Computational Technologies, ICCICT 2014**
Source: *2014 International Conference on Control, Instrumentation, Communication and Computational Technologies, ICCICT 2014*, December 18, 2014
 9. **Proceedings of 11th ITG Symposium on Speech Communication**
Source: *Proceedings of 11th ITG Symposium on Speech Communication, 2014, Proceedings of 11th ITG Symposium on Speech Communication*
 10. **Maximum a posteriori estimation of room impulse responses**
Florenco, Dinei (Microsoft Research, Redmond; WA, United States); Zhang, Zhengyou **Source:** *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*, v 2015-August, p 728-732, August 4, 2015, *2015 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2015 - Proceedings*
 11. **2013 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, WASPAA 2013**
Source: *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, 2013, 2013 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, WASPAA 2013*

◇ 盲源分离 (blind source separation) ⁴

通过检索 EI 数据库, 2016 年以来盲源分离在复杂环境多声源定位与场景重构方向涉及 12 篇最新的研究论文:

1. **Noise source separation of diesel engine by combining binaural sound localization method and blind source separation method**
Yao, Jiachi (School of Energy and Power Engineering, Wuhan University of Technology, Wuhan; 430063, China); Xiang, Yang; Qian, Sichong; Li, Shengyang; Wu, Shaowei **Source:** *Mechanical Systems and Signal Processing*, v 96, p 303-320, November 2017
2. **Steganography of digital watermark by Arnold scrambling transform with blind source separation morphological component analysis**
Yu, Chong (Software and Service Group, Asia-Pacific Research and Development Ltd, Intel, Shanghai; 200241, China) **Source:** *Multimedia Tools and Applications*, v 76, n 5, p 6821-6842, March 1, 2017
3. **A new two-microphone Gauss-Seidel pseudo affine projection algorithm for speech quality enhancement**
Djendi, Mohamed (Signal Processing and Image Laboratory (LATSI) University SaadDahleb of Blida 1 Blida 09000 Algeria) **Source:** *International Journal of Adaptive Control and Signal Processing*, 2017
Article in Press
4. **Data augmentation using multi-input multi-output source separation for deep neural network based acoustic modeling**
Fujita, Yusuke (Hitachi, Ltd., Research and Development Group, Japan); Takashima, Ryoich; Homma, Takeshi; Togami, Masahito **Source:** *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH*, p 3818-3822, 2016, *17th Annual Conference of the International Speech Communication Association, INTERSPEECH 2016*
5. **Blind source separation - Based motion detector for sub-micrometer, periodic displacement in ultrasonic imaging**
Hossain, Murad (Joint Department of Biomedical Engineering, University of North Carolina, Chapel Hill; NC, United States); Thapa, Diwash; Sierchio, Justin; Oldenburg, Amy; Gallippi, Caterina **Source:** *IEEE International Ultrasonics Symposium, IUS*, 2016-November, November 1, 2016, *2016 IEEE International Ultrasonics Symposium, IUS 2016*
6. **A history of cepstrum analysis and its application to mechanical problems**
Randall, Robert B. (School of Mechanical and Manufacturing Engineering, University of New South Wales, Sydney 2052, Australia) **Source:** *Mechanical Systems and Signal Processing*, August 09, 2016
Article in Press
7. **Dynamic blind source separation based on source-direction prediction**
Wei, Yangjie (College of Information Science and Engineering, Northeastern University, Wenhua Str. 3, Shenyang, China); Wang, Yi **Source:** *Neurocomputing*, v 185, p 73-81, April 12, 2016
8. **Echo decomposition based time delay sensor with sub-sample resolution**
Bettadapura, S. (DSPRL - Wireless at VT - Department of Electrical and Computer Engineering, Virginia Tech, Blacksburg; VA; 24061-0111, United States); Beex, A. A. Louis **Source:** *2016 International Conference on Computing, Networking and Communications, ICNC 2016*, March 23, 2016, *2016 International Conference on Computing, Networking and Communications, ICNC 2016*

⁴EI 数据库检索策略: (((("blind source separation") WN CV)) AND ((aco* sou* loc* or sco* rec*) WN KY)) + (2017 OR 2016) WN YR

9. **Blind Acoustic Source Separation Via System Identification for Leak Detection in Pipelines**
Dankers, Arne (Department of Electrical and Computer Engineering, University of Calgary, Canada); Jalilian, Ehsan; Westwick, David **Source:** *IFAC-PapersOnLine*, v 49, n 13, p 229-234, 2016
10. **Data augmentation using multi-input multi-output source separation for deep neural network based acoustic modeling**
Fujita, Yusuke (Hitachi, Ltd., Research and Development Group, Japan); Takashima, Ryoichi; Homma, Takeshi; Togami, Masahito **Source:** *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH*, v 08-12-September-2016, p 3818-3822, 2016, *INTER_SPEECH 2016: Understanding Speech Processing in Humans and Machines*
11. **A novel robotic sound localization and separation using non-causal filtering and Bayesian fusion**
Keyrouz, Fakheredine (A Notre Dame University, Zouk Mosbeh, Lebanon) **Source:** *IEEE International Workshop on Machine Learning for Signal Processing, MLSP*, 2016-November, November 8, 2016, *2016 IEEE International Workshop on Machine Learning for Signal Processing, MLSP 2016 - Proceedings*
12. **Over-Determined Source Separation and Localization Using Distributed Microphones**
Wang, Lin (Centre for Intelligent Sensing, Queen Mary University of London, London; E14NS, United Kingdom); Reiss, Joshua D.; Cavallaro, Andrea **Source:** *IEEE/ACM Transactions on Audio Speech and Language Processing*, v 24, n 9, p 1569-1584, September 2016

◇ 时间反演 (time reversal) ⁵

通过 EI 数据库检索，2016 年以来时间反演在复杂环境多声源定位与场景重构研究方向涉及 25 篇最新的研究论文：

1. **Time reversal seismic source imaging using peak average power ratio (PAPR) parameter**
Franczyk, Anna (AGH University of Science and Technology, Krakow, Poland); Leśniak, Andrzej; Gwizdz, Damian **Source:** *Acta Geophysica*, v 65, n 2, p 299-308, April 1, 2017
2. **Time-Reversal Mirror-Virtual Source Array Method for Acoustic Imaging of Proud and Buried Targets**
Yu, Zi-Bin (Department of Information Science and Electronic Engineering, Zhejiang University, Hangzhou, China); Zhao, Hang-Fang; Gong, Xian-Yi; Chapman, N. Ross **Source:** *IEEE Journal of Oceanic Engineering*, v 41, n 2, p 382-394, April 2016
3. **Location method of acoustic emission by time reversal focusing and enhancing for steel plate**
Li, Xin (Key Laboratory of NDT, Ministry of Education, Nanchang Hangkong University, Nanchang; 330063, China); Luo, Gengsheng; Long, Shengrong; Chen, Guo; Li, Qiufeng **Source:** *Yi Qi Yi Biao Xue Bao/Chinese Journal of Scientific Instrument*, v 37, n 8, p 1792-1799, August 1, 2016 **Language:** Chinese
4. **Vibro-Acoustic fault detection using a numerical time reversal method with reduced order models**
Van Ophem, Sjoerd (KU Leuven, Department Mechanical Engineering, Celestijnenlaan 300B, Heverlee; B-3001, Belgium); Deckers, Elke; Atak, Onur; Desmet, Wim **Source:** *8th European Workshop on Structural Health Monitoring, EWSHM 2016*, v 2, p 1416-1425, 2016, *8th European Workshop on Structural Health Monitoring, EWSHM 2016*

⁵EI 数据库检索策略: (("time reversal") WN KY) AND ((aco* sou* loc*) WN KY) + (2017 OR 2016) WN YR

5. **Development of the Source Reconstruction System by Combining Sound Source Localization and Time Reversal Method**
Lin, S.-C. (Department of Systems and Naval Mechatronic Engineering National Cheng Kung University Tainan City, Taiwan); Too, G.-P.; Tu, C.-W. **Source:** *Journal of Mechanics*, p 1-6, March 9, 2016
Article in Press
6. **Closed crack imaging using time reversal method based on fundamental and second harmonic scattering**
Blanloeuil, P. (School of Mechanical & Mining Engineering, University of Queensland, Brisbane; QLD; 4072, Australia); Rose, L.R.F.; Guinto, J.A.; Veidt, M.; Wang, C.H. **Source:** *Wave Motion*, v 66, p 156-176, November 1, 2016
7. **Multi-source acoustic emission localization technology research based on FBG sensing network and time reversal focusing imaging**
Sai, Yaozhang (School of Control Science and Engineering, Shandong University, 17923 Jingshi Road, Jinan, China); Jiang, Mingshun; Sui, Qingmei; Lu, Shizeng; Jia, Lei **Source:** *Optik*, v 127, n 1, p 493-498, January 1, 2016
8. **Enhanced focal-resolution of dipole sources using aeroacoustic time-reversal in a wind tunnel**
Mimani, A. (School of Mechanical Engineering, University of Adelaide, SA, Australia); Moreau, D.J.; Prime, Z.; Doolan, C.J. **Source:** *Mechanical Systems and Signal Processing*, v 72-73, p 925-937, May 1, 2016
9. **A simulation-based analysis of the effect of a reflecting surface on aeroacoustic time-reversal source characterization and comparison with beamforming**
Mimani, Akhilesh (School of Mechanical Engineering, The University of Adelaide, South Australia; 5005, Australia); Porteous, Ric; Doolan, Con J. **Source:** *Wave Motion*, v 70, p 65-89, April 1, 2017
10. **Modified time reversal imaging of a closed crack based on nonlinear scattering**
Blanloeuil, Philippe (School of Mechanical and Mining Engineering, University of Queensland, Brisbane; QLD; 4072, Australia); Rose, L. R. Francis; Guinto, Jed A.; Veidt, Martin; Wang, Chun H. **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 9804, 2016, *Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, and Civil Infrastructure 2016*
11. **A Novel Dual-Channel Matching Method Based on Time Reversal and its Performance for Sound Source Localization in Enclosed Space**
Huiying, Ma (College of Marine Science and Technology, Northwestern Polytechnical University, Xi'an, China); Xiangyang, Zeng; Haitao, Wang **Source:** *Acoustics Australia*, v 44, n 3, p 417-428, December 1, 2016
12. **Time reversal seismic source imaging using peak average power ratio (PAPR) parameter**
Franczyk, Anna (AGH University of Science and Technology, Krakow, Poland); Leśniak, Andrzej; Gwizdz, Damian **Source:** *Acta Geophysica*, v 65, n 2, p 299-308, April 1, 2017
Database: GEOBASE
13. **Impulse source localization in an urban environment: Time reversal versus time matching**
Cheinet, Sylvain (French-German Research Institute of Saint-Louis, 5 rue du Général Cassagnou, Saint-Louis, France); Ehrhardt, Loïc; Broglin, Thierry **Source:** *Journal of the Acoustical Society of America*, v 139, n 1, p 128-140, January 1, 2016
14. **A simulation-based analysis of the effect of a reflecting surface on aeroacoustic time-reversal source characterization and comparison with beamforming**
Mimani, Akhilesh (School of Mechanical Engineering, The University of Adelaide, South Australia; 5005, Australia); Porteous, Ric; Doolan, Con J. **Source:** *Wave Motion*, v 70, p 65-89, April 1, 2017

Database: GEOBASE

15. **Time reversal for localization of sources of infrasound signals in a windy stratified atmosphere**
Lonzaga, Joel B. (National Center for Physical Acoustics, University of Mississippi, 145 Hill Drive, University; MS; 38677, United States) **Source:** *Journal of the Acoustical Society of America*, v 139, n 6, p 3053-3062, June 1, 2016
16. **An experimental application of aeroacoustic time-reversal to the Aeolian tone**
Mimani, A. (School of Mechanical Engineering, University of Adelaide, Adelaide; SA, Australia); Prime, Z.; Moreau, D.J.; Doolan, C.J. **Source:** *Journal of the Acoustical Society of America*, v 139, n 2, p 740-763, February 1, 2016
17. **Factors affecting the imaging of the impact location with inverse filtering and diffuse wave fields**
Ciampa, Francesco (Department of Mechanical Engineering, University of Bath, Bath; BA2 7AY, United Kingdom); Boccardi, Salvatore; Meo, Michele **Source:** *Journal of Intelligent Material Systems and Structures*, v 27, n 11, p 1523-1533, July 1, 2016
18. **Simulation study of a chaotic cavity transducer based virtual phased array used for focusing in the bulk of a solid material**
Delrue, Steven (Wave Propagation and Signal Processing Research Group, KU Leuven Kulak, E. Sabbelaan 53, Kortrijk, Belgium); Van Den Abeele, Koen; Bou Matar, Olivier **Source:** *Ultrasonics*, v 67, p 151-159, 2016
19. **One sensor acoustic emission localization in plates**
Ernst, R. (Institute of Mechanical Systems, Swiss Federal Institute of Technology, ETH Zurich, Switzerland); Zwimpfer, F.; Dual, J. **Source:** *Ultrasonics*, v 64, p 139-150, January 1, 2016
20. **Acoustic Green's function extraction in the ocean**
Zang, Xiaoqin (University of Miami) **Source:** *ProQuest Dissertations and Theses Global*, 2016
21. **Deconvolution of acoustic emissions for source localization using time reverse modeling**
Kocur, Georg Karl (Institute of Structural Engineering, ETH Zurich, Stefano-Francini-Platz 5, Zurich; 8093, Switzerland) **Source:** *Journal of Sound and Vibration*, v 387, p 66-78, January 20, 2017
22. **Optimal source imaging in elastic media**
Bazargani, Farhad (Center for Wave Phenomena, Colorado School of Mines, Golden; CO, United States); Snieder, Roel **Source:** *Geophysical Journal International*, v 204, n 2, p 1134-1147, 2016
23. **Localization of random acoustic sources in an inhomogeneous medium**
Khazaie, Shahram (Aix Marseille Univ, CNRS, Centrale Marseille, M2P2, 13451, Marseille Cedex; 13, France); Wang, Xun; Sagaut, Pierre **Source:** *Journal of Sound and Vibration*, v 384, p 75-93, December 8, 2016
24. **Selective focusing through target identification and experimental acoustic signature extraction: Numerical experiments**
Rodriguez, S. (Univ. Bordeaux, I2M, UMR 5295, Talence; F-33400, France); Jacob, X.; Gibiat, V. **Source:** *Ultrasonics*, v 68, p 8-16, May 1, 2016
25. **Note: Localization based on estimated source energy homogeneity**
Turkaya, Semih (IPG Strasbourg, CNRS, Université de Strasbourg, Strasbourg, France); Toussaint, Renaud; Eriksen, Fredrik Kvalheim; Lengliné, Olivier; Daniel, Guillaume; Flekkøy, Eirik G.; Måløy, Knut Jørgen **Source:** *Review of Scientific Instruments*, v 87, n 9, September 1, 2016

◇ 微弱声信号检测 (weak signal detection) ⁶

通过检索 EI 数据库, 2017 年以来微弱声信号检测研究方向涉及 16 篇最新的研究论文:

1. **Weak signal detection system based on Duffing oscillator with linear driven by to-be-detected signal**
Lu, Ming (School of Physics and Electronics, Central South University, Changsha; 410083, China); Ma, Songshan; Ding, Jiafeng; Huang, Wei; Yuan, Hong **Source:** *Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)*, v 48, n 3, p 721-728, March 26, 2017 **Language:** Chinese
2. **A Novel Weak Signal Detection Method via Chaotic Synchronization Using Chua's Circuit**
Li, Guozheng (School of Electric Power, South China University of Technology, Guangzhou; 510640, China); Zhang, Bo **Source:** *IEEE Transactions on Industrial Electronics*, v 64, n 3, p 2255-2265, March 2017
3. **Photodetectors for weak-signal detection fabricated from ZnO:(Li,N) films**
He, G.H. (State Key Laboratory of Luminescence and Applications, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences Changchun 130033, China); Zhou, H.; Shen, H.; Lu, Y.J.; Wang, H.Q.; Zheng, J.C.; Li, B.H.; Shan, C.X.; Shen, D.Z. **Source:** *Applied Surface Science*, v 412, p 554-558, August 1, 2017
4. **Interferometric detection technique based on optical coherence and weak signal detection**
Dong, Lei (Department of Electro-Optical Detection, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun; Jilin; 130033, China); Wang, Bin; Liu, Xinyue **Source:** *Guangxue Xuebao/Acta Optica Sinica*, v 37, n 2, February 10, 2017 **Language:** Chinese
5. **Novelty-focused weak signal detection in futuristic data: Assessing the rarity and paradigm unrelatedness of signals**
Kim, Jieun (Institute for Data, Systems, and Society (IDSS), Massachusetts Institute of Technology (MIT), United States); Lee, Changyong **Source:** *Technological Forecasting and Social Change*, June 30, 2016
Article in Press
6. **Novel synthetic index-based adaptive stochastic resonance method and its application in bearing fault diagnosis**
Zhou, Peng (College of Electrical Engineering and Automation, Anhui University, Hefei; Anhui; 230601, China); Lu, Siliang; Liu, Fang; Liu, Yongbin; Li, Guihua; Zhao, Jiwen **Source:** *Journal of Sound and Vibration*, v 391, p 194-210, March 17, 2017
7. **Vibration fault diagnosis of hydroelectric generating unit by using stochastic resonance and Empirical Mode Decomposition**
Jia, Rong (Xi'an University of Technology, Xi'an; 710048, China); Li, Taotao; Xia, Zhou; Ma, Xiping **Source:** *Shuili Xuebao/Journal of Hydraulic Engineering*, v 48, n 3, p 334-340 and 350, March 1, 2017 **Language:** Chinese
8. **Novel method for detecting weak signal with unknown frequency based on duffing oscillator**
Li, Guozheng (The School of Electric Power, South China University of Technology, Guangzhou; 510640, China); Zhang, Bo **Source:** *Yi Qi Yi Biao Xue Bao/Chinese Journal of Scientific Instrument*, v 38, n 1, p 181-189, January 1, 2017 **Language:** Chinese

⁶EI 数据库检索策略: (("weak signal detection") WN KY) + (2017) WN YR

9. **Implementation of a modified wireless sensor network MAC protocol for critical environments**
Richert, Viktor (School of Computing, Teesside University, Middlesbrough, United Kingdom); Issac, Biju; Israr, Nauman **Source:** *Wireless Communications and Mobile Computing*, v 2017, 2017
10. **Binary response Se/ZnO p-n heterojunction UV photodetector with high on/off ratio and fast speed**
Hu, Kai (Department of Materials Science, Fudan University, 220 Handan Road, Shanghai 200433, China); Teng, Feng; Zheng, Lingxia; Yu, Pingping; Zhang, Zhiming; Chen, Hongyu; Fang, Xiaosheng **Source:** *Laser and Photonics Reviews*, v 11, n 1, January 1, 2017
11. **Constant beamwidth beamforming in the time domain based on coherent interference suppression**
Huang, Cong (China Ship Development and Design Center, Wuhan; 430064, China); Li, Di **Source:** *Harbin Gongcheng Daxue Xuebao/Journal of Harbin Engineering University*, v 38, n 1, p 25-30, January 25, 2017 **Language:** Chinese
12. **Rotating machine fault diagnosis through enhanced stochastic resonance by full-wave signal construction**
Lu, Siliang (College of Electrical Engineering and Automation, Anhui University, Hefei; Anhui; 230601, China); He, Qingbo; Zhang, Haibin; Kong, Fanrang **Source:** *Mechanical Systems and Signal Processing*, v 85, p 82-97, February 15, 2017
13. **Novel Robust Band-Limited Signal Detection Approach Using Graphs**
Yan, Kun (Guangxi Key Laboratory of Wireless Wideband Communication and Signal Processing, Guilin University of Electronic Technology, Guilin; 100044, China); Wu, Hsiao-Chun; Xiao, Hailin; Zhang, Xiangli **Source:** *IEEE Communications Letters*, v 21, n 1, p 20-23, January 2017
14. **Weak impulsive signals detection based on step-varying asymmetric stochastic resonance**
Zhang, Haibin (Department of Precision Machinery and Precision Instrumentation, University of Science and Technology of China, Hefei, Anhui; 230026, China); Zheng, Yuan; Kong, Fanrang **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 231, n 2, p 242-262, January 1, 2017
15. **A novel real-time detection of orthogonal transient weak ELF magnetic signals**
Piao, Guanyu (State Key Lab of Power Systems, Department of Electrical Engineering, Tsinghua University, China); Guo, Jingbo; Hu, Tiehua **Source:** *SAS 2017 - 2017 IEEE Sensors Applications Symposium, Proceedings*, April 6, 2017, *SAS 2017 - 2017 IEEE Sensors Applications Symposium, Proceedings*
16. **Novel high-performance SOI junctionless FET-based phototransistor using channel doping engineering: Numerical investigation and sensitivity analysis**
Ferhati, H. (LEA, Department of Electronics, University of Batna 2, Batna; 05000, Algeria); Djeflal, F. **Source:** *Optik*, v 138, p 119-126, June 1, 2017

【机构扫描】

◇ 中国科学院声学研究所

英文名称: Institute Of Acoustics, Chinese Academy Of Sciences

机构网址: <http://www.ioa.ac.cn/>

通过检索 EI 数据库, 中国科学院声学研究所 2015 年以来在复杂环境多声源定位与场景重构领域, 共有 28 篇论文⁷:

1. **Transmission and radiation of acoustic oblique incident through tube arrays based on phononic crystals theory**
Jiang, Genshan (North China Electric Power University, Baoding; 071003, China); Liu, Yuechao; Wu, Yapan; Xu, Weilong; Kong, Qian; Zhang, Chun **Source:** *Applied Acoustics*, v 116, p 117-126, January 15, 2017
2. **Acoustic echo suppression based on speech presence probability**
Tong, Ying (Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Gu, Yaping **Source:** *International Conference on Digital Signal Processing, DSP*, p 35-38, March 1, 2017, *Proceedings - 2016 IEEE International Conference on Digital Signal Processing, DSP 2016*
3. **Analysis of sound propagation in the direct-arrival zone in deep water with a vector sensor and its application**
Sun, Mei (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing; 100190, China); Zhou, Shi-Hong; Li, Zheng-Lin **Source:** *Wuli Xuebao/Acta Physica Sinica*, v 65, n 9, May 5, 2016 **Language:**Chinese
4. **Ship-noise based geoacoustic inversion via particle filtering of vertical specific acoustic impedance**
Ren, Qun-Yan (Acoustics and Environmental Hydroacoustics Lab, Laboratories of Image, Signal Processing and Acoustics, Universite Libre de Bruxelles (ULB), Belgium); Hermand, Jean-Pierre **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
5. **Vertical directionality of a source observed by a short vertical line array in shallow water**
Zhang, Tongwei (Department of Technology, National Deep Sea Center, Qingdao, China); Yang, Kunde; Liu, Yeyao; Yang, Bo **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
6. **Study of the temperature rise induced by a focusing transducer with a wide aperture angle on biological tissue containing ribs**
Wang, Xin (Key Laboratory of Modern Acoustics, Institute of Acoustics and School of Physics, Collaborative Innovation Center of Advanced Microstructures, Nanjing University, Nanjing, China); Lin, Jiexing; Liu, Xiaozhou; Liu, Jiehui; Gong, Xiufen **Source:** *Chinese Physics B*, v 25, n 4, April 2016
7. **Numerical simulation of microseismic wavefields with moment-tensor sources**
Li, Lei (Institute of Acoustics, Chinese Academy of Sciences, Beijing; 100190, China); Chen, Hao; Wang, Xiu-Ming **Source:** *Proceedings of the 2016 Symposium on Piezoelectricity, Acoustic Waves and Device Applications, SPAWDA 2016*, p 339-343, January 23, 2017, *Proceedings of the 2016 Symposium on Piezoelectricity, Acoustic Waves and Device Applications, SPAWDA 2016*
8. **Moving source parameter estimation in an uncertain environment**
Li, Qian-Qian (College of Geomrtics, Shandong University of Science and Technology, Qingdao; 266590, China); Yang, Fan-Lin; Zhang, Kai; Zheng, Bing-Xiang **Source:** *Wuli Xuebao/Acta Physica Sinica*, v 65, n 16, August 20, 2016 **Language:**Chinese
9. **Sound propagation in deep water with the presence of seamounts**
Li, Zhenglin (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing; 100190, China); Li, Wen; Zhang, Renhe **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*

⁷EI 数据库检索策略: (((aco* sou* loc*) or (sco* rec*)) WN KY) AND ((Institute Of Acoustics, Chinese Academy Of Sciences) WN AF)) + (2017 OR 2016 OR 2015) WN YR

10. **Asymmetric sound transmission in a passive non-blocking structure with multiple ports**
Zhu, Yi-Fan (Key Laboratory of Modern Acoustics, MOE, Institute of Acoustics, Department of Physics, Collaborative Innovation Center of Advanced Microstructures, Nanjing University, Nanjing; 210093, China); Gu, Zhong-Ming; Liang, Bin; Yang, Jing; Yang, Jun; Yin, Lei-Lei; Cheng, Jian-Chun **Source:** *Applied Physics Letters*, v 109, n 10, September 5, 2016
11. **Theoretical model and simulation of ship underwater radiated noise**
Sun, Jun-Ping (Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences, Qingdao; 266023, China); Yang, Jun; Lin, Jian-Heng; Jiang, Guo-Jian; Yi, Xue-Juan; Jiang, Peng-Fei **Source:** *Wuli Xuebao/Acta Physica Sinica*, v 65, n 12, June 20, 2016 **Language:** Chinese
12. **Intelligent outdoor video advertisement recommendation system based on analysis of audiences' characteristics**
Liu, Peng (Haikou Laboratory, Institute of Acoustics, Chinese Academy of Sciences, Haikou; 570105, China); Li, Songbin; Deng, Haojiang; Wang, Jinlin **Source:** *High Technology Letters*, v 22, n 2, p 215-223, June 1, 2016
13. **Bearing splitting and near-surface source ranging in the direct zone of deep water**
Wu, Jun-Nan (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing; 100190, China); Zhou, Shi-Hong; Peng, Zhao-Hui; Zhang, Yan; Zhang, Ren-He **Source:** *Chinese Physics B*, v 25, n 12, December 2016
14. **Analysis of vector sound field in the direct-arrival zone in deep water**
Mei, Sun (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing; 100190, China); Zhou, Shihong; Li, Fenghua **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
15. **Effect of pulse length on low frequency average reverberation intensity in shallow water waveguide**
Hou, Qiannan (Key Laboratory of Underwater Acoustic Environment, Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Wu, Jinrong; Zhang, Jianlan; Ma, Li **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
16. **Sound propagation in deep water with a sloping bottom**
Hu, Zhi-Guo (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Li, Zheng-Lin; Zhang, Ren-He; Ren, Yun; Qin, Ji-Xing; He, Li **Source:** *Wuli Xuebao/Acta Physica Sinica*, v 65, n 1, January 5, 2016 **Language:** Chinese
17. **Study on the holography reconstruction of the radiated acoustic field of the structure sound source with large scale**
Lyu, Yaohui (National Laboratory of Underwater Acoustics Technology, Harbin Engineering University, Harbin; 150001, China); Cao, Yu; Sun, Dajun **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
18. **A system of far-field sound pressure prediction based on Hadoop**
Cheng, Xiaobin (Key Laboratory of Noise and Vibration, Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Shi, Shuyuan; Wang, Xun; Yang, Jun **Source:** *INTER-NOISE 2015 - 44th International Congress and Exposition on Noise Control Engineering, 2015, INTER-NOISE 2015 - 44th International Congress and Exposition on Noise Control Engineering*
19. **Eigenanalysis-Based Adaptive Interference Suppression and Its Application in Acoustic Source Range Estimation**
Ren, Suiling (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Ge, Feng-Xiang; Guo, Xin; Guo, Lianghao **Source:** *IEEE Journal of Oceanic Engineering*, v 40, n 4, p 903-916, October 2015

20. **A multi-channel MAC protocol for underwater acoustic networks**
Gao, Mingsheng (College of IoT Engineering, Hohai University, China); Li, Jian; Li, Wei; Deng, Zhixiang **Source:** *2015 IEEE 20th International Workshop on Computer Aided Modelling and Design of Communication Links and Networks, CAMAD 2015*, p 293-298, January 25, 2016, *2015 IEEE 20th International Workshop on Computer Aided Modelling and Design of Communication Links and Networks, CAMAD 2015*
21. **Comparison and analysis between two coupled-mode methods for range-dependent sound propagation**
Qin, Jixing (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing; 100190, China); Luo, Wenyu; Zhang, Renhe; Yang, Chunmei **Source:** *Shengxue Xuebao/Acta Acustica*, v 40, n 4, p 487-499, July 1, 2015 **Language:** Chinese
22. **A biomimetic coupled circuit based microphone array for sound source localization**
Xu, Huping (School of Logistics Engineering, Wuhan University of Technology, Wuhan, China); Xu, Xiangyuan; Jia, Han; Guan, Luyang; Bao, Ming **Source:** *Journal of the Acoustical Society of America*, v 138, n 3, p EL270-EL275, September 1, 2015
23. **Applicability criterion of equivalent sources method and locating optimization of sources**
Wei, Ying-San (College of Marine Power, Naval University of Engineering, Wuhan, China); Wang, Yong-Sheng; Shen, Yang; Jin, Shuan-Bao; Jiang, Guo-Jian **Source:** *Zhendong yu Chongji/Journal of Vibration and Shock*, v 34, n 21, p 200-204, November 15, 2015 **Language:** Chinese
24. **Matched field localization of the air-borne sound source in underwater**
Su, Lin (Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Sun, Bingwen; Guo, Shengming; Ma, Li **Source:** *Shengxue Xuebao/Acta Acustica*, v 40, n 6, p 799-806, November 1, 2015 **Language:** Chinese
25. **Exact solution of three-dimensional acoustic field in a wedge with perfectly reflecting boundaries**
Luo, WenYu (State Key Laboratory of Acoustics, Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Zhang, RenHe **Source:** *Science China: Physics, Mechanics and Astronomy*, v 58, n 9, September 8, 2015
26. **Identification and location of acoustic imaging on high frequency weak noise sources with a microphone array**
Qian, Zhenglian (College of Mechanical and Electronic Engineering, Shandong University of Science and Technology, Qingdao, China); Yang, Yichun; Yu, Lizhi; Teng, Pengxiao; Han, Baokun; Wang, Changtian **Source:** *Shengxue Xuebao/Acta Acustica*, v 40, n 1, p 90-96, January 1, 2015 **Language:** Chinese
27. **Compensation to SNR of the object source by improving SNR of the guide source in source localization using virtual receiver technique**
Yao, Meijuan (Institute of Acoustics, Chinese Academy of Sciences, Beijing, China); Lu, Licheng; Ma, Li; Guo, Shengming **Source:** *Shengxue Xuebao/Acta Acustica*, v 40, n 2, p 162-169, March 1, 2015 **Language:** Chinese
28. **Face detection based on landmark localization**
Liu, Peng (Haikou Laboratory, Institute of Acoustics, Chinese Academy of Sciences, Haikou, China); Li, Songbin; Dai, Qiongxing; Deng, Haojiang **Source:** *Lecture Notes in Electrical Engineering*, v 355, p 547-554, 2015, *Proceedings of the 4th International Conference on Computer Engineering and Networks, CENet2014*

◇ 哈尔滨工程大学水声工程学院

英文名称: College Of Underwater Acoustic Engineering, Harbin Engineering University

机构网址: <http://uae.hrbeu.edu.cn/shuishengxueyuan/>

通过检索 EI 数据库, 哈尔滨工程大学水声工程学院 2015 年以来在复杂环境多声源定位与场景重构领域, 共有 12 篇论文⁸:

1. **Noise source identification by using near field acoustic holography and focused beamforming based on spherical microphone array with random uniform distribution of elements**
Zhang, Lan-Yue (Science and Technology on Underwater Acoustic Laboratory, Harbin Engineering University, Harbin; 150001, China); Ding, Dan-Dan; Yang, De-Sen; Shi, Sheng-Guo; Zhu, Zhong-Rui **Source:** *Wuli Xuebao/Acta Physica Sinica*, v 66, n 1, January 5, 2017 **Language:** Chinese
2. **A multi-view sonar image fusion method based on the morphological wavelet and directional filters**
Zhang, Zhigang (Acoustic Science and Technology Laboratory, College of Underwater Acoustic Engineering, Harbin Engineering University, Harbin, China); Bian, Hongyu; Song, Ziqi **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
3. **Analytical study of acoustic ranging accuracy**
Li, Zhao (College of Underwater Acoustic Engineering, Acoustic Science and Technology Laboratory, Harbin Engineering University, Harbin, China); Sun, Dajun; Dosso, Stan E. **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
4. **Joint inversion for transponder localization and sound-speed profile temporal variation in high-precision acoustic surveys**
Li, Zhao (College of Underwater Acoustic Engineering, Harbin Engineering University, Harbin; 150001, China); Dosso, Stan E.; Sun, Dajun **Source:** *Journal of the Acoustical Society of America*, v 140, n 1, p EL44-EL49, July 1, 2016
5. **Research on passive localization algorithm based on twin-line array focused beamforming**
Mei, Jidan (Science and Technology on Underwater Acoustic Laboratory, Harbin Engineering University, Harbin, China); Ma, Chao; Zhang, Liang; Zhu, Yinghui; Xue, Fulian **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
6. **The influence of the sound speed profile on signal waveform correlation for different normal mode in shallow water waveguide**
Li, Xiaoman (College of Underwater Acoustic Engineering, Harbin Engineering University, Harbin, China); Piao, Shengchun; Zhou, Jianbo; Zhou, Hongsong **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
7. **Compressive focused beamforming based on vector sensor array**
Shi, Jie (Science and Technology on Underwater Acoustic Laboratory, Harbin Engineering

⁸ EI 数据库检索策略: (((aco* sou* loc*) or (sco* rec*)) WN KY) AND ((College Of Underwater Acoustic Engineering, Harbin Engineering University) WN AF)) + (2017 OR 2016 OR 2015) WN YR

University, Harbin, China); Yang, De-Sen; Shi, Sheng-Guo; Hu, Bo; Zhu, Zhong-Rui **Source:** *Wuli Xuebao/Acta Physica Sinica*, v 65, n 2, January 20, 2016 **Language:** Chinese

8. **Low complexity OMP based matched-phase coherent shallow water broadband multi-source localization**
Zhang, Youwen (Acoustic Science and Technology Laboratory, College of Underwater Acoustic Engineering, Harbin Engineering University, Harbin, China); Wang, Tong; Sun, Dajun; Cui, Hongyu **Source:** *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*, August 5, 2016, *2016 IEEE/OES China Ocean Acoustics Symposium, COA 2016*
9. **Application of cyclic postfix in the time reversed-OFDM-based underwater communication**
Wang, Chi (National Laboratory of Underwater Acoustic Technology, Harbin Engineering University, Harbin; Heilongjiang, China); Yin, Jing-Wei; Du, Peng-Yu; Chen, Yang **Source:** *Binggong Xuebao/Acta Armamentarii*, v 36, n 5, p 885-890, May 1, 2015 **Language:** Chinese
10. **Research on passive ranging method with single vector hydrophone**
Li, Nansong (Science and Technology on Underwater Acoustic Laboratory, Harbin Engineering University, Harbin, China); Piao, Shengchun **Source:** *Yi Qi Yi Biao Xue Bao/Chinese Journal of Scientific Instrument*, v 36, n 10, p 2273-2282, October 1, 2015 **Language:** Chinese
11. **High-resolution time reversal focused localization method for cylindrical noise source with horizontal array**
Han, Chuang (Acoustic Science and Technology Laboratory, Harbin Engineering University, Harbin, China); Yu, Shu-Hua; Shi, Sheng-Guo; He, Pan-Pan; Shi, Jie **Source:** *Zhendong yu Chongji/Journal of Vibration and Shock*, v 34, n 22, p 92-97, November 28, 2015 **Language:** Chinese
12. **Calculation of a vessel scattering acoustic field by using prolate spheroid model**
Ma, Jingxin (1. Acoustic Science and Technology Laboratory, Harbin Engineering University, 2. College of Underwater Acoustic Engineering, Harbin Engineering University, Harbin, China); Zhu, Jianjun; Li, Haisen; Wang, Xiaodong **Source:** *OCEANS 2015 - MTS/IEEE Washington*, February 8, 2016, *OCEANS 2015 - MTS/IEEE Washington*

◇ 洛桑联邦理工学院计算机与通信科学院

英文名称: Swiss federal Institute of Technology in Lausanne

机构网址: <http://www.epfl.ch/>

通过检索 EI 数据库, 洛桑联邦理工学院计算机与通信科学院 2016 年以来在杂环境多声源定位与场景重构领域, 共有 9 篇论文⁹:

1. **Knowledge Areas Delivered in Project Management Programs: Exploratory Study**
Nguyen, Long D. (Dept. of Environmental and Civil Engineering, Florida Gulf Coast Univ., Fort Myers; FL; 33965, United States); Chih, Ying-Yi; García De Soto, Borja **Source:** *Journal of Management in Engineering*, v 33, n 1, January 1, 2017
2. **One sensor acoustic emission localization in plates**
Ernst, R. (Institute of Mechanical Systems, Swiss Federal Institute of Technology, ETH Zurich, Switzerland); Zwimpfer, F.; Dual, J. **Source:** *Ultrasonics*, v 64, p 139-150, January 1, 2016

⁹ EI 数据库检索策略: (((((aco* sou* loc*) or (sco* rec*)) WN KY) AND ((Swiss federal Institute of Technology) WN AF)) + (2017 OR 2016 OR 2015) WN YR

3. **Advanced Sensor Signal Feature Extraction and Pattern Recognition for Wire EDM Process Monitoring**
Caggiano, Alessandra (Department of Industrial Engineering, University of Naples Federico II, P.le Tecchio 80, Naples; 80125, Italy); Perez, Roberto; Segreto, Tiziana; Teti, Roberto; Xirouchakis, Paul **Source:** *Procedia CIRP*, v 42, p 34-39, 2016, *18th CIRP Conference on Electro Physical and Chemical Machining, ISEM 2016*
4. **Max-sum diversity via convex programming**
Cevallos, Alfonso (École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland); Eisenbrand, Friedrich; Zenklussen, Rico **Source:** *Leibniz International Proceedings in Informatics, LIPIcs*, v 51, p 26.1-26.14, June 1, 2016, *32nd International Symposium on Computational Geometry, SoCG 2016*
5. **Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015**
Orphal, Johannes (Institute for Meteorology and Climate Research (IMK), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany); Staehelin, Johannes; Tamminen, Johanna; Braathen, Geir; De Backer, Marie-Renée et al. **Source:** *Journal of Molecular Spectroscopy*, January 20, 2016 Article in Press
6. **Analysis of whiplash associated disorder claims using real-world data retrieved from event data recorders: A case-control study**
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