

### **Gaussian mixture models for signal mapping and positioning**

Raitoharju, M., García-Fernández, F., Hostettler, R., Piché, R. & Särkkä, S., 1 Mar 2020, In : Signal Processing. 168, 107330.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography**

Pirhonen, M. & Vehkaoja, A., 2020, In : Biomedical Signal Processing and Control. 59, 11 p., 101887.

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Magron, P. & Virtanen, T., 2020, In : IEEE Signal Processing Letters. 27, p. 306-310 5 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Functional electrical stimulation for facial pacing: Effects of waveforms on movement intensity and ratings of discomfort**

Ilves, M., Rantanen, V., Venesvirta, H., Lylykangas, J., Vehkaoja, A., Mäkelä, E., Verho, J., Leikkala, J., Rautiainen, M. & Surakka, V., 2020, In : Biomedical Signal Processing and Control. 60, 7 p., 101992.

Research output: Contribution to journal › Article › Scientific › peer-review

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Belyaev, E., Codreanu, M., Juntti, M. & Egiazarian, K., 2020, In : IET Image Processing. 14, 6, p. 1187-1200 14 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Vehicle Attribute Recognition by Appearance: Computer Vision Methods for Vehicle Type, Make and Model Classification**

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Research output: Contribution to journal › Article › Scientific › peer-review

### **Digital Predistortion for Multiuser Hybrid MIMO at mmWaves**

Brihuega, A., Anttila, L., Abdelaziz, M., Eriksson, T., Tufvesson, F. & Valkama, M., 2020, In : IEEE Transactions on Signal Processing. 68, p. 3603-3618 16 p.

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### **Multimodal subspace support vector data description**

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Research output: Contribution to journal › Article › Scientific › peer-review

### **Self-Supervised Light Field Reconstruction Using Shearlet Transform and Cycle Consistency**

Gao, Y., Bregovic, R. & Gotchev, A., 2020, In : IEEE Signal Processing Letters. 27, p. 1425-1429 5 p.

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### **Bayesian receiver operating characteristic metric for linear classifiers**

Hassan, S. S., Huttunen, H., Niemi, J. & Tohka, J., 1 Dec 2019, In : Pattern Recognition Letters. 128, p. 52-59 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Generalization of the K-SVD algorithm for minimization of $\beta$ -divergence**

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Research output: Contribution to journal › Article › Scientific › peer-review

### **An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions**

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### **Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups**

Fu, J., Pertuz, S., Matas, J. & Kämäräinen, J.-K., Sep 2019, In : Computer Vision and Image Understanding. 186, p. 58-73

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Purwins, H., Li, B., Virtanen, T., Schlüter, J., Chang, S. Y. & Sainath, T., 1 May 2019, In : IEEE Journal on Selected Topics in Signal Processing. 13, 2, p. 206-219 14 p.  
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**Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth**

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