

# Martin Vetterli

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

337  
papers

22,186  
citations

70  
h-index

145  
g-index

372  
ext. papers

27,567  
ext. citations

5  
avg, IF

7.1  
L-index

#	Paper	IF	Citations
337	Asynchrony Increases Efficiency: Time Encoding of Videos and Low-Rank Signals. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 70, 105-116	4.8	0
336	CPGD: Cadzow Plug-and-Play Gradient Descent for Generalised FRI. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 42-57	4.8	5
335	. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 2480-2498	4.8	0
334	Coordinate Difference Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2020</b> , 41, 332-363	1.5	
333	. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 1105-1119	4.8	8
332	Bound and Conquer: Improving Triangulation by Enforcing Consistency. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 2321-2326	13.3	1
331	. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 452-465	4.8	14
330	Encoding and Decoding Mixed Bandlimited Signals Using Spiking Integrate-and-Fire Neurons <b>2020</b> ,		3
329	Multi-channel Time Encoding for Improved Reconstruction of Bandlimited Signals <b>2019</b> ,		6
328	. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 4839-4854	4.8	6
327	On the Move: Localization with Kinetic Euclidean Distance Matrices <b>2019</b> ,		1
326	Learning neural connectivity from firing activity: efficient algorithms with provable guarantees on topology. <i>Journal of Computational Neuroscience</i> , <b>2018</b> , 44, 253-272	1.4	0
325	Unlabeled Sensing With Random Linear Measurements. <i>IEEE Transactions on Information Theory</i> , <b>2018</b> , 64, 3237-3253	2.8	31
324	. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 1410-1424	4.8	4
323	Efficient Multidimensional Diracs Estimation With Linear Sample Complexity. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 4642-4656	4.8	2
322	Sparse Recovery of Strong Reflectors with an Application to Non-Destructive Evaluation <b>2018</b> ,		1
321	<b>2018</b> ,		3

320	Sampling at Unknown Locations: Uniqueness and Reconstruction Under Constraints. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 5862-5874	4.8	5
319	. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 2629-2644	4.8	20
318	FRIDA: FRI-based DOA estimation for arbitrary array layouts <b>2017</b> ,		12
317	Unlabeled sensing: Reconstruction algorithm and theoretical guarantees <b>2017</b> ,		10
316	Towards Generalized FRI Sampling With an Application to Source Resolution in Radioastronomy. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 821-835	4.8	42
315	Sampling at unknown locations, with an application in surface retrieval <b>2017</b> ,		1
314	Handheld Reflectance Acquisition of Paintings. <i>IEEE Transactions on Computational Imaging</i> , <b>2017</b> , 3, 580-591	4.5	2
313	<b>2017</b> ,		2
312	Acoustic DoA Estimation by One Unsophisticated Sensor. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 89-980.9	0.9	4
311	LEAP: Looking beyond pixels with continuous-space EstimAtion of Point sources. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 608, A136	5.1	8
310	VITRIL: Acquisition, Modeling, and Rendering of Stained Glass. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 4475-88	8.7	2
309	Shapes From Pixels. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 1193-206	8.7	39
308	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 358-372	8	60
307	<b>2016</b> ,		10
306	. <i>IEEE Signal Processing Magazine</i> , <b>2016</b> , 33, 62-83	9.4	12
305	Accurate recovery of a specularity from a few samples of the reflectance function <b>2016</b> ,		2
304	Shape: Linear-time camera pose estimation with quadratic error-decay <b>2016</b> ,		1
303	. <i>IEEE Transactions on Signal Processing</i> , <b>2016</b> , 64, 5807-5818	4.8	13

302	Optimal sensor architecture selection for health management of complex systems <b>2016,</b>		2
301	EchoSLAM: Simultaneous localization and mapping with acoustic echoes <b>2016,</b>		21
300	Through the Hourglass: A Faithful Audiovisual Reconstruction of the Old Montreux Casino. <i>Acoustics Australia</i> , <b>2015</b> , 43, 49-57	1.4	0
299	DASS: Distributed Adaptive Sparse Sensing. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 2571-2583	9.6	14
298	. <i>IEEE Signal Processing Magazine</i> , <b>2015</b> , 32, 12-30	9.4	191
297	Relax and unfold: Microphone localization with Euclidean distance matrices <b>2015,</b>		2
296	Unlabeled sensing: Solving a linear system with unordered measurements <b>2015,</b>		17
295	Raking echoes in the time domain <b>2015,</b>		3
294	A Fast Hadamard Transform for Signals With Sublinear Sparsity in the Transform Domain. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 2115-2132	2.8	11
293	Sequences with minimal time-frequency uncertainty. <i>Applied and Computational Harmonic Analysis</i> , <b>2015</b> , 38, 452-468	3.1	14
292	Near-Optimal Thermal Monitoring Framework for Many-Core Systems-on-Chip. <i>IEEE Transactions on Computers</i> , <b>2015</b> , 64, 3197-3209	2.5	7
291	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2015</b> , 9, 825-836	7.5	25
290	On the accuracy of point localisation in a circular camera-array <b>2015,</b>		2
289	On minimal trajectories for mobile sampling of bandlimited fields. <i>Applied and Computational Harmonic Analysis</i> , <b>2015</b> , 39, 487-510	3.1	15
288	Robust diffusion-based unsupervised object labelling in distributed camera networks <b>2015,</b>		4
287	Opportunistic Sampling for Joint Population Size and Density Estimation. <i>IEEE Transactions on Mobile Computing</i> , <b>2015</b> , 14, 2530-2543	4.6	3
286	The Beauty of the Commons: Optimal Load Sharing by Base Station Hopping in Wireless Sensor Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2015</b> , 1-1	14.2	
285	Immigration: Swiss science set to stay international. <i>Nature</i> , <b>2014</b> , 507, 431	50.4	

284	Topology optimization for energy-efficient communications in consensus wireless networks <b>2014</b> ,		3
283	Sampling based on timing: Time encoding machines on shift-invariant subspaces. <i>Applied and Computational Harmonic Analysis</i> , <b>2014</b> , 36, 63-78	3.1	20
282	Digital acoustics: processing wave fields in space and time using DSP tools. <i>APSIPA Transactions on Signal and Information Processing</i> , <b>2014</b> , 3,	4.4	5
281	Near-optimal source placement for linear physical fields <b>2014</b> ,		2
280	Detecting planar surface using a light-field camera with application to distinguishing real scenes from printed photos <b>2014</b> ,		2
279	Privacy-preserving function computation by exploitation of friendships in social networks <b>2014</b> ,		1
278	Single-channel indoor microphone localization <b>2014</b> ,		17
277	Scale-invariant representation of light field images for object recognition and tracking <b>2014</b> ,		2
276	Light field panorama by a plenoptic camera <b>2014</b> ,		1
275	A robust method for inverse transport modeling of atmospheric emissions using blind outlier detection. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 2303-2311	6.3	20
274	Near-Optimal Sensor Placement for Linear Inverse Problems. <i>IEEE Transactions on Signal Processing</i> , <b>2014</b> , 62, 1135-1146	4.8	143
273	Foundations of Signal Processing <b>2014</b> ,		162
272	Sampling High-Dimensional Bandlimited Fields on Low-Dimensional Manifolds. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 2103-2127	2.8	17
271	<b>2013</b> ,		3
270	Compressed sensing of streaming data <b>2013</b> ,		7
269	Sampling and reconstructing diffusion fields in presence of aliasing <b>2013</b> ,		5
268	Acoustic echoes reveal room shape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12186-91	11.5	131
267	LCAV-31: a dataset for light field object recognition <b>2013</b> ,		2

266	Calibration Using Matrix Completion With Application to Ultrasound Tomography. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 4923-4933	4.8	9
265	The Fukushima inverse problem <b>2013</b> ,		9
264	<b>2013</b> ,		3
263	. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 2328-2340	4.8	26
262	Beyond Moore-Penrose: Sparse pseudoinverse <b>2013</b> ,		7
261	<b>2013</b> ,		2
260	On the bandwidth of the plenoptic function. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 708-17	8.7	45
259	On Sampling and Coding for Distributed Acoustic Sensing. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 3198-3214	2.8	10
258	Rate Distortion Behavior of Sparse Sources. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 4969-4992	2.8	27
257	Distributed successive refinement of multiview images using broadcast advantage. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 4581-92	8.7	2
256	. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 3705-3716	6.9	112
255	Fast and Robust Parametric Estimation of Jointly Sparse Channels. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2012</b> , 2, 402-412	5.2	8
254	Bits from photons: oversampled image acquisition using binary Poisson statistics. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 1421-36	8.7	50
253	Locating the source of diffusion in large-scale networks. <i>Physical Review Letters</i> , <b>2012</b> , 109, 068702	7.4	217
252	EigenMaps <b>2012</b> ,		25
251	Sensorcam <b>2012</b> ,		2
250	Room helps: Acoustic localization with finite elements <b>2012</b> ,		18
249	On sampling a high-dimensional bandlimited field on a union of shifted lattices <b>2012</b> ,		4

248	Sampling and reconstructing spatial fields using mobile sensors <b>2012</b> ,		11
247	Multi-channel low-frequency room equalization using perceptually motivated constrained optimization <b>2012</b> ,		2
246	Share risk and energy: Sampling and communication strategies for multi-camera wireless monitoring networks <b>2012</b> ,		10
245	Sampling and reconstruction of time-varying atmospheric emissions <b>2012</b> ,		7
244	How is the weather: Automatic inference from images <b>2012</b> ,		15
243	Hydrologic response of an alpine watershed: Application of a meteorological wireless sensor network to understand streamflow generation. <i>Water Resources Research</i> , <b>2011</b> , 47,	5-4	36
242	Robust array calibration using time delays with application to ultrasound tomography <b>2011</b> ,		6
241	The Distributed Multiple Voting Problem. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2011</b> , 5, 791-804	7-5	24
240	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2011</b> , 5, 645-648	7-5	4
239	Group Testing With Probabilistic Tests: Theory, Design and Application. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 7057-7067	2-8	63
238	Calibration in circular ultrasound tomography devices <b>2011</b> ,		2
237	Can one hear the shape of a room: The 2-D polygonal case <b>2011</b> ,		30
236	Compressive Sampling of Multiple Sparse Signals Having Common Support Using Finite Rate of Innovation Principles. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 331-334	3-2	20
235	. <i>IEEE/ACM Transactions on Networking</i> , <b>2011</b> , 19, 333-346	3-8	77
234	Use of learned dictionaries in tomographic reconstruction <b>2011</b> ,		3
233	Estimating Sparse MIMO channels having Common Support <b>2011</b> ,		6
232	Sensor networks for diffusion fields: Detection of sources in space and time <b>2011</b> ,		7
231	Applications of short space-time fourier analysis in digital acoustics <b>2011</b> ,		2

230	Sparse spectral factorization: Unicity and reconstruction algorithms <b>2011</b> ,		23
229	Sampling and reconstructing diffusion fields with localized sources <b>2011</b> ,		22
228	Population size estimation using a few individuals as agents <b>2011</b> ,		6
227	Localization of diffusive sources using spatiotemporal measurements <b>2011</b> ,		2
226	Ultrasound tomography with learned dictionaries <b>2010</b> ,		10
225	Distributed successive approximation coding using broadcast advantage: The two-encoder case <b>2010</b> ,		2
224	SensorScope. <i>ACM Transactions on Sensor Networks</i> , <b>2010</b> , 6, 1-32	2.9	170
223	. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 1095-1109	4.8	25
222	Baffled circular loudspeaker array with broadband high directivity <b>2010</b> ,		4
221	Near-field adaptive beamforming and source localization in the spacetime frequency domain <b>2010</b> ,		3
220	Feeling in control of your footsteps: Conscious gait monitoring and the auditory consequences of footsteps. <i>Cognitive Neuroscience</i> , <b>2010</b> , 1, 184-92	1.7	41
219	Space-Time-Frequency Processing of Acoustic Wave Fields: Theory, Algorithms, and Applications. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 4608-4620	4.8	13
218	Stream temperature response to three riparian vegetation scenarios by use of a distributed temperature validated model. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2072-8	10.3	57
217	Weighted Gossip: Distributed Averaging using non-doubly stochastic matrices <b>2010</b> ,		114
216	Demosaicking by alternating projections: theory and fast one-step implementation. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 2085-98	8.7	42
215	Sparse Image Representation by Directionlets. <i>Advances in Imaging and Electron Physics</i> , <b>2010</b> , 161, 147-209		0
214	Learning sparse systems at sub-Nyquist rates: A frequency-domain approach <b>2010</b> ,		1
213	Sound speed estimation using wave-based ultrasound tomography: theory and GPU implementation <b>2010</b> ,		12



212	An optimal algorithm for reconstructing images from binary measurements <b>2010</b> ,		8
211	Robust ultrasound travel-time tomography using the bent ray model <b>2010</b> ,		26
210	On pixel detection threshold in the gigavision camera <b>2010</b> ,		5
209	On the Information Rates of the Plenoptic Function. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 1306-1321	2.8	2
208	Order-Optimal Consensus Through Randomized Path Averaging. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 5150-5167	2.8	43
207	Distributed Compression in Microphone Arrays <b>2009</b> , 157-188		
206	Designing color filter arrays for the joint capture of visible and near-infrared images <b>2009</b> ,		34
205	Image reconstruction in the gigavision camera <b>2009</b> ,		6
204	Distributed sensing of signals linked by sparse filtering <b>2009</b> ,		2
203	Interval consensus: From quantized gossip to voting <b>2009</b> ,		34
202	Spatial super-resolution of a diffusion field by temporal oversampling in sensor networks <b>2009</b> ,		24
201	Potentials of Opportunistic Routing in Energy-Constrained Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 118-133	0.9	13
200	Acoustic Tomography for Scalar and Vector Fields: Theory and Application to Temperature and Wind Estimation. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2009</b> , 26, 1475-1492	2	29
199	Estimation of urban sensible heat flux using a dense wireless network of observations. <i>Environmental Fluid Mechanics</i> , <b>2009</b> , 9, 635-653	2.2	43
198	Reproducible research in signal processing. <i>IEEE Signal Processing Magazine</i> , <b>2009</b> , 26, 37-47	9.4	172
197	From Lagrange to Shannon... and back: another look at sampling [DSP Education]. <i>IEEE Signal Processing Magazine</i> , <b>2009</b> , 26, 138-144	9.4	6
196	Rate-Constrained Collaborative Noise Reduction for Wireless Hearing Aids. <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 645-657	4.8	24
195	<b>2009</b> ,		11

194	The gigavision camera <b>2009</b> ,		17
193	Distributed spatio-temporal sampling of diffusion fields from sparse instantaneous sources <b>2009</b> ,		11
192	Coding of spatio-temporal audio spectra using tree-structured directional filterbanks <b>2009</b> ,		1
191	Support recovery in compressed sensing: An estimation theoretic approach <b>2009</b> ,		5
190	Optimal color filter array design: quantitative conditions and an efficient search procedure <b>2009</b> ,		10
189	Assessing Digital Surface Models by Verifying Shadows <b>2009</b> , 147-161		
188	Dimensionality Reduction for Distributed Estimation in the Infinite Dimensional Regime. <i>IEEE Transactions on Information Theory</i> , <b>2008</b> , 54, 1655-1669	2.8	21
187	Compressive Sampling [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , <b>2008</b> , 25, 12-13	9.4	71
186	Sparse Sampling of Signal Innovations. <i>IEEE Signal Processing Magazine</i> , <b>2008</b> , 25, 31-40	9.4	246
185	Wave Field coding in the spacetime frequency domain. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	4
184	SensorScope: Out-of-the-Box Environmental Monitoring <b>2008</b> ,		142
183	Distributed compressed sensing: Sparsity models and reconstruction algorithms using annihilating filter. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	10
182	Subspace-based methods for image registration and super-resolution <b>2008</b> ,		2
181	Assessing the challenges of environmental signal processing through the sensorscope project. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	3
180	Wireless Sensor Networks for Environmental Monitoring: The SensorScope Experience <b>2008</b> ,		46
179	Groebner basis methods for multichannel sampling with unknown offsets. <i>Applied and Computational Harmonic Analysis</i> , <b>2008</b> , 25, 277-294	3.1	2
178	The hitchhiker's guide to successful wireless sensor network deployments <b>2008</b> ,		114
177	Experiences with Reproducible Research in Various Facets of Signal Processing Research <b>2007</b> ,		5

176	Distributed Spatial Audio Coding in Wireless Hearing Aids <b>2007</b> ,		3
175	Space-frequency quantization for image compression with directionlets. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 1761-73	8.7	33
174	Super-Resolution From Unregistered and Totally Aliased Signals Using Subspace Methods. <i>IEEE Transactions on Signal Processing</i> , <b>2007</b> , 55, 3687-3703	4.8	48
173	Dynamic measurement of room impulse responses using a moving microphone. <i>Journal of the Acoustical Society of America</i> , <b>2007</b> , 122, 1636	2.2	24
172	Tomographic Approach for Parametric Estimation of Local Diffusive Sources and Application to Heat Diffusion <b>2007</b> ,		3
171	Space-Frequency Quantization using Directionlets <b>2007</b> ,		5
170	Annihilating filter-based decoding in the compressed sensing framework <b>2007</b> ,		8
169	Efficient image compression using directionlets <b>2007</b> ,		3
168	Sampling Moments and Reconstructing Signals of Finite Rate of Innovation: Shannon Meets StrangBix. <i>IEEE Transactions on Signal Processing</i> , <b>2007</b> , 55, 1741-1757	4.8	238
167	A Stochastic Model for Video and its Information Rates <b>2007</b> ,		2
166	Sampling and exact reconstruction of bandlimited signals with additive shot noise. <i>IEEE Transactions on Information Theory</i> , <b>2006</b> , 52, 2230-2233	2.8	22
165	. <i>IEEE Transactions on Information Theory</i> , <b>2006</b> , 52, 5177-5196	2.8	101
164	A Frequency Domain Approach to Registration of Aliased Images with Application to Super-resolution. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2006</b> , 2006, 1	1.9	194
163	Lattice networks: capacity limits, optimal routing, and queueing behavior. <i>IEEE/ACM Transactions on Networking</i> , <b>2006</b> , 14, 492-505	3.8	27
162	Low-Rate Reduced Complexity Image Compression using Directionlets <b>2006</b> ,		4
161	On the Information Rate of the Plenoptic Function <b>2006</b> ,		1
160	Rate-Constrained Beamforming for Collaborating Hearing Aids <b>2006</b> ,		9
159	Locating mobile nodes with EASE: learning efficient routes from encounter histories alone. <i>IEEE/ACM Transactions on Networking</i> , <b>2006</b> , 14, 457-469	3.8	63

158	Correction to "Lattice Networks: Capacity Limits, Optimal Routing, and Queueing Behavior". <i>IEEE/ACM Transactions on Networking</i> , <b>2006</b> , 14, 1150-1150	3.8	
157	Network correlated data gathering with explicit communication: NP-completeness and algorithms. <i>IEEE/ACM Transactions on Networking</i> , <b>2006</b> , 14, 41-54	3.8	118
156	Sensing reality and communicating bits: a dangerous liaison. <i>IEEE Signal Processing Magazine</i> , <b>2006</b> , 23, 70-83	9.4	51
155	The Plenacoustic Function and Its Sampling. <i>IEEE Transactions on Signal Processing</i> , <b>2006</b> , 54, 3790-3804	4.8	80
154	Directionlets: anisotropic multidirectional representation with separable filtering. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 1916-33	8.7	193
153	Locally adaptive wavelet-based image interpolation. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 1471-85	8.7	46
152	Registration of aliased images for super-resolution imaging <b>2006</b> , 6077, 13		3
151	Sensor Networks <b>2006</b> , 243-288		
150	Super-resolution from highly undersampled images <b>2005</b> ,		13
149	Compression of ECG as a Signal with Finite Rate of Innovation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2005</b> , 2005, 7564-7		
148	Sampling and reconstruction of signals with finite rate of innovation in the presence of noise. <i>IEEE Transactions on Signal Processing</i> , <b>2005</b> , 53, 2788-2805	4.8	134
147	The contourlet transform: an efficient directional multiresolution image representation. <i>IEEE Transactions on Image Processing</i> , <b>2005</b> , 14, 2091-106	8.7	2297
146	Rate-distortion optimized tree-structured compression algorithms for piecewise polynomial images. <i>IEEE Transactions on Image Processing</i> , <b>2005</b> , 14, 343-59	8.7	91
145	On the bandlimitedness of the plenoptic function <b>2005</b> ,		4
144	Power, spatio-temporal bandwidth, and distortion in large sensor networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2005</b> , 23, 745-754	14.2	90
143	On the capacity of large Gaussian relay networks. <i>IEEE Transactions on Information Theory</i> , <b>2005</b> , 51, 765-789		182
142	Networked Slepian-Wolf: theory, algorithms, and scaling laws. <i>IEEE Transactions on Information Theory</i> , <b>2005</b> , 51, 4057-4073	2.8	103
141	UWB Channel Estimation and Synchronization <b>2005</b> , 11-42		

140	Approximation power of directionlets <b>2005</b> ,		7
139	Packet combining in sensor networks <b>2005</b> ,		73
138	Power-bandwidth-distortion scaling laws for sensor networks <b>2004</b> ,		18
137	Rate-distortion problem for physics based distributed sensing <b>2004</b> ,		9
136	. <i>IEEE Transactions on Signal Processing</i> , <b>2004</b> , 52, 175-189	4.8	45
135	Double resolution from a set of aliased images <b>2004</b> ,		6
134	Networked Slepian-Wolf: Theory and Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 44-59	0.9	3
133	Space-Time Routing in Ad Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 1-11	0.9	4
132	Acoustic based rendering by interpolation of the plenacoustic function <b>2003</b> ,		2
131	Discrete directional wavelet bases and frames: analysis and applications <b>2003</b> , 5207, 583		2
130	Discrete directional wavelet bases for image compression <b>2003</b> ,		2
129	To code, or not to code: lossy source-channel communication revisited. <i>IEEE Transactions on Information Theory</i> , <b>2003</b> , 49, 1147-1158	2.8	281
128	Computational analysis of mesh simplification using global error. <i>Computational Geometry: Theory and Applications</i> , <b>2003</b> , 25, 171-196	0.4	10
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16	Limited retransmission of real-time layered multimedia		13
15	Plenacoustic function on the circle with application to HRTF interpolation		11

14	On the optimal density for real-time data gathering of spatio-temporal processes in sensor networks	26
13	Efficient routing with small buffers in dense networks	4
12		12
11	On network correlated data gathering	146
10	Improved quadtree algorithm based on joint coding for piecewise smooth image compression	5
9	Video multicast in (large) local area networks	3
8	To code or not to code	10
7	Multiple description transform coding: robustness to erasures using tight frame expansions	38
6	Source coding and transmission of signals over time-varying channels with side information	3
5		9
4	Overcomplete expansions and robustness	14
3		3
2		58
1	Signal Processing for Communications	33