## **INDEX TO DEFENCE SCIENCE JOURNAL, VOLUME 63, 2013**

## TITLE INDEX

- A Blue Print for the Future Electronic Warfare Suite Development (*Review Paper*), 192
- A Distributed Weighted Voting Approach for Accurate Eye Center Estimation, 292
- A new Strategy of Guidance Command Generation for Re-entry Vehicle, 93
- A Predictive Explicit Guidance Scheme for Ballistic Missiles, 456
- Active Vibration Control of a Smart Cantilever Beam on General Purpose Operating System, 413
- Adsorption Behaviour of Diisopropyl Flourophosphate on Whetlerite Carbon, 473
- Advanced Navigation System for Aircraft Applications (*Invited Paper*), 131
- Advances in Shannon Sampling Theory (Review Paper), 41
- An Architecture for High data rate Very Low Frequency communication, 25
- An Efficacious and Secure Registration for Internet Protocol Mobility, 502
- An Improved Polar-Coordinate Navigation System with the Establishment of Electronic Counter-Counter Measures Capabilities, 114
- Anti-strike Capability of Steel-fiber Reactive Powder Concrete, 363
- Application of Metallic Strip Gratings for Enhancement of Electromagnetic Performance of A-sandwich Radome, 508
- Approaches towards Implementation of Multi-bit Digital Receiver using Fast Fourier Transform (*Review Paper*), 198
- Approximation and Filtering Techniques for Navigation Data in Time-critical Electronic Warfare Systems (Research Paper), 204
- ARINC 653 API and its application An insight into Avionics System Case Study (Review Paper), 223
- Atmospheric Reentry Dispersion Correction Ascent Phase Guidance for a Generic Reentry Vehicle, 233
- Automatic Bright Circular Type Oil Tank Detection Using Remote Sensing Images, 298
- Avionics systems (Guest Editorial), 129
- Ballistic Impact Response of Ceramic-faced Aramid Laminated Composites Against 7.62 mm Armour Piercing Projectiles, 369
- Climate Based Performance of Carbon-Carbon Disc Brake for High Speed Aircraft Braking System, 531
- Coherent Change Detection with COSMO SkyMed Dataexperimental Results, 69
- Communication Management Unit: Single Solution of Voice and Data Routing Unit (Short Communication), 181

- Communication Systems and Image Processing Technology (Guest Editorial), 3
- Comparative Assessment of Some Target Detection Algorithms for Hyperspectral Images, 53
- Design and Development of Intracavity Optical Parametric Oscillator-based Eye Safe Laser Operating at 20 Hz without Forced Air Cooling, 599
- Design Optimization of Pixel Structure for  $\alpha$ -Si based Uncooled Infrared Detector, 581
- Designing a Battlefield Fire Support System Using Adaptive Neuro-Fuzzy Inference System Based Model, 497
- Determination and Validation of Parameters for Riedel-Hiermaier-Thoma Concrete Model, 524
- Development of a New Armor Steel and its Ballistic Performance, 271
- Development of Miniature Stirling Cryocooler Technology for Infrared Focal Plane Array, 571
- Effect of Experiment Environment on Calorimetric Value of Composite Solid Propellants, 467
- Effect of Explosive Sources on the Elastic Wave Field of Explosions in Soils, 376
- Effect of Pore in Composition-B explosive on Sensitivity under Impact of Drop Weight, 108
- Effect of Sintering Time on Dielectric and Piezoelectric Properties of Lanthanum Doped Pb(Ni1/3Sb2/3)-PbZrTiO3 Ferroelectric Ceramics, 418
- Effects of Different Meteorological Standards on Projectile Path. 101
- Energy Absorption and Dynamic Deformation of Backing Material for Ballistic Evaluation of Body Armour, 462
- Field-Programmable Gated Array Implementation of Split-Radix Fast Fourier Transform for High Throughput (*Review Paper*), 210
- Finite Element Magnetostatic Analysis of Magnetostrictive (Tb0.3Dy0.7Fe1.95) Actuator with Different Housing Materials, 423
- Flight Test Evaluation of Mission Computer Algorithms for a Modern Trainer Aircraft (*Review Paper*), 164
- Fusion of Onboard Sensors for Better Navigation (*Review Paper*), 145
- Global Contour and Region Based Shape Analysis and Similarity Measures (*Review Paper*), 74
- Implementation of Physical Layer Key Distribution using Software Defined Radios, 6
- Improved Double Threshold Energy Detection for Cooperative Spectrum Sensing in Cognitive Radio, 34

- Influence of Aircraft Flow Field on the Longitudinal Stability of a Missile, 242
- Infrared Background and Missiles Signature Survey, 611
- Integrated Enhanced and Synthetic Vision System for Transport Aircraft (*Review Paper*), 157
- Integration of INS, GPS, Magnetometer and Barometer for Improving Accuracy Navigation of the Vehicle, 451
- Inverse Synthetic Aperture Radar Imaging for Micro-motion Target with Rotating Parts (*Short Communication*), 521
- Large Aperture, Tip Tilt Mirror for Beam Jitter Correction in High Power Lasers, 606
- Latest Developments of Cooled Infrared Detectors at Sofradir, France, 550
- Making the Mission Computer Intelligent A Step Ahead (*Review Paper*), 174
- Mechanical and Explosive Properties of Plastic Bonded Explosives Based on Mixture of HMX and TATB, 622
- Melamine Polyimide Composite Fire Resistant Intumescent Coatings, 442
- Microstructural Characterization and Hardness Evaluation of Friction Stir Welded Composite AA6061-4.5Cu-5SiC (Wt.%), 429
- Microwave Combustion Synthesis of Silver Doped Lanthanum Ferrite Magnetic Nanoparticles, 285
- Microwaves in Airborne Surveillance (*Invited Paper*), 138
- Mitigation of Mine Blast Loading by Collapsible Structures, 262
- Mode-matching Generalised Scattering Matrix Based Electromagnetics Performance Analysis of Thick Frequency Selective Surfaces for Airborne Applications, 249
- Multifractal Modelling of Aircraft Echoes from Lowresolution Radars Based on Structural Functions, 515
- Multiple-input Multiple-output radar Waveform design Methodologies (*Review paper*), 393
- Numerical Computational Technique for Scattering from Underwater Objects, 119
- Numerical Exploration of Solid Rocket Motor Blast Tube Flow Field, 616
- Numerical Simulation of Supersonic Jet Impingement on Inclined Plate, 355
- Online Trajectory Reshaping for a Launch Vehicle to Minimize the Final Error Caused by Navigation and Guidance, 254
- Optical and Electro-Optical Instrumentation (Guest Editorial), 543

- Optimal 4G OFDMA Dynamic Subcarrier and Power Auction-based Allocation towards H.264 Scalable Video Transmission, 15
- Passive Source Localization Using Compressively Sensed Towed Array, 630
- PCA-SVMbased CAD System for Focal Liver Lesions using B-Mode Ultrasound Images, 478
- Preparation, Characterisation and Photocatalytic Applications of TiO2-MWCNTs Composite, 435
- Quad Tree-based Level-of-details Representation of Digital Globe (Short Communication), 89
- Range Firing and its Impact of Physiological Parameters, 278
- Real Time Mid-course Maneuver and Guidance of a Generic reentry Vehicle, 346
- Recent Advances in Decontamination of Chemical Warfare Agents (*Review Paper*), 487
- Response of Dome-enclosed Box-type Structure to Underwater Explosion, 381
- Robust Detection of Moving Human Target Behind Wall via Impulse Through-wall Radar, 636
- Scale Invariant Feature Transform Based Fingerprint Corepoint Detection, 402
- Sensor Non Uniformity Correction Algorithms and its Real Time Implementation for Infrared Focal Plane Array-based Thermal Imaging System, 589
- Service to Science and Service to Defence: Moseley in the Light of the Centenary Year of his Landmark Publications in Defence of Science (*Editorial*), 343
- Status of Cooled and Uncooled Infrared Detectors at SCD, Israel, 555
- Status of Uncooled Infrared Detector Technology at ULIS, France, 545
- Strengthening the Growth of Indian Defence by Harnessing Nanotechnology - A Prospective, 46
- Stroke Symbol Generation Software for Fighter Aircraft (Research Paper), 153
- Subpixel Target Enhancement in Hyperspectral Images, 63
- Susceptibility of Electro-explosive Devices to Microwave Interference, 386
- Synthesis and Characterization of Antifriction Magnetorheological Fluids for Brake, 408
- System Software Abstraction Layer much more than Operating System Abstraction Layer (*Review Paper*), 214
- Wireless Data Acquisition System for Launch Vehicles (*Review Paper*), 186

## **AUTHOR INDEX**

Abraham, Sheena see Ray, Sabooj

Agarwal, R.C. see Agarwal, Sonali

Agarwal, Sonali, 46

Agrawal, Lalita see Bhardwaj, Atul

Ali, Javed see Khan, Abdul Wadood

Ananda, C.M. 223

Anandhanarayanan, K. see Arora, Konark

Anandrao, K. Sanjay, 308

Ansari, A.Q. see Hanmandlu, M.

Ansari, Shahid Husain see Khan, Abdul Wadood

Arora, Konark, 242

Arora, Manoj K. 53, 63

Atapek, Ş. Hakan 271

Athawale, Anjali A. see Desai, P.A.

Azeez, Sameer Abdul see Nandagopan, O.R.

Babu, A. Sudheer, 305

Bahl, Rajendar see Kumar, Arun

Bai, Chun-Hua, 376

Balasubramanian, K. see Lonkar, C.M.

Balasubramanian, K. see Ramdayal

Banerjee, A. see Nayak, N.

Banerjee, Adrish see Kalamkar, Sanket S.

Bansal, Shweta, see Arora, Manoj K.

Bercier, E. see Tissot, J.L.

Bhan, R.K. see Gupta, Sudha

Bhardwaj, Atul 599

Bhattacharjee, Debarati, 462

Bhattacharya, B. see Jawale, Lalita S.

Bhattacharya, C. see Kumar, N. Suresh

see Mishra, A.

Bineesh, P.K. see Singh, Sunita Awasthi

Biswas, Ipsita see Bhattacharjee, Debarati

Chakraborty, Debasis see Dharavath, Malsur

see Javed, Afroz

see Arora, Konark

Chander, Avinash, 233, 346

Chaudhuri, D. 74

Chaudhuri, D. see Kushwaha, N.K.

see Mishra, A.

Chauhan, Kiran, see Arora, Manoj K.

Chen, Jian see Bai, Chun-Hua

Christopher, S. 138

Chunming, Song see Pengxian, Fan

Crastes, A. see Tissot, J.L.

DaoCheng, Xie, 93

Desai, P.A. 285

Dey, Chandrani see Jawale, Lalita S.

Dharavath, Malsur, 355

Dikic, Goran see Sokolovic, Vlada

Ding, Yu-Qing, 524

Doss, Jeba Arul see Ray, Sabooj

Durand, A. see Tissot, J.L.

Fraenkel, Rami see Klipstein, Philip

Gangadharan, K.V. see Parameswaran, A.P.

Ghai, Devinder Pal 606

Girija, G. see Kumar, N. Shantha

Goyal, Kunal see Hanmandlu, M.

Goztepe, Kerim, 497

Gupta, A.K. see Suresh, S.

Gupta, Mehilal Manoj see Jawale, Lalita S.

Gupta, R.K. see Anandrao, K. Sanjay

Gupta, Sandhya see Gupta, Satish Chandra

Gupta, Satish Chandra, 442

Gupta, Sudha 581

Hanmandlu, M. 402

Herbert, Mervin see Shettigar, A.K.

Hirani, Harish see Sarkar, Chiranjit

Hu. Jun 636

Hu, Shaoqiao, see Zhang, Qi

Huang, Zhiping see Zhao, Dexin

Huixia, Sun, 521

Jagannatham, Aditya K. see Sekhar, G. Chandra

Jahagirdar, D.R. see Thomas, Tessy

Javed, Afroz 616

Jawale, Lalita S. 467

Jha, R.M. see Narayan, Shiv

see Nair, Raveendranath U.

Joshi, Balaji R. 278

Joshi, Raghavendra, 423

Joshi, S.D. see Sharma, K.K.

Kadoli, Ravikiran see Joshi, Raghavendra

Kalamkar, Sanket S. 34

Kalra, Naveen see Virmani, Jitendra

Kambala, S. 6

Kashyap, Sudesh K. see Kumar, N. Shantha

Katiyar, Anupriya see Gupta, Sudha

Kaushik, M.P. see Suresh, S.

Khan, Abdul Wadood, 487

Khandelwal, Niranjan see Virmani, Jitendra

Kharat, D.K. see Lonkar, C.M.

Khare, Sangeeta see Mahto, Shanker

see Arora, Manoj K.

Klipstein, Philip 555

Kolekar, Maheshkumar H. see Singh, Gagandeep

Kotta, Sabna see Khan, Abdul Wadood

Kour, Jaspreet see Hanmandlu, M.

Krishnamurthy, R. see Arora, Konark

Kshirsagar, P.D. see Babu, A. Sudheer

Kulkarni, Abhijit S. 198

Kumar, Arun, 25

Kumar, Ajay 589

see Bhattacharjee, Debarati

Kumar, Anjesh see Renuka, D.V.

Kumar, H.H. see Lonkar, C.M.

Kumar, Indra Deo see Prabhakar, N.

Kumar, Mahesh see Singh, Arjun

Kumar, Mathi Senthil, 502

Kumar, N. Shantha, 157

Kumar, N. Suresh 630

Kumar, Prashant see Tripathi, G.K.

Kumar, Raj, see Mani, T. Ratna

Kumar, S. Prem see Ray, Sabooj

Kumar, Vinod see Joshi, Balaji R.

see Virmani, Jitendra

Kundhavai, R.M. see Vanitha, D

Kushwaha, N.K. 298

Kuttieri, Rajesh A. see Meharu, Gargi

Lee, Keunhwa see Zhao, Dexin

Li, Qiu Sheng, 515

Liang, Huimin, see Zhang, Qi

Lonkar, C.M. 418

Madhumitha, J. see Nair, Raveendranath U.

Mahto, Shanker, 3

see Agarwal, Sonali

Mainak, G.H. see Ananda, C.M.

Maini, Anil Kumar see Bhardwaj, Atul

Malekar, Rutvik see Hanmandlu, M.

Mani, T. Ratna, 119

Meharu, Gargi, 164

Merline, A. 393

Mingyang, Wang see Pengxian, Fan

Mishra, A. 69

Mishra, K.K. see Babu, A. Sudheer

Mizrahi, Udi see Klipstein, Philip

Mohanty, R.M. 531

Mukhedkar, R. J. 101

Mukherjee, G.S. 343

Murali Krishna, I.V. see Chander, Avinash

see Chander, Avinash

see Thomas, Tessy

Muralidharan, R. see Gupta, Sudha

Naik, S.D. see Mukhedkar, R. J.

Naidu, V.P.S. see Kumar, N. Shantha

Nainani, Roshan K. see Shitole, Kirti D.

Nair, R.U. 508

see Narayan, Shiv

Nair, Sabitha, see Ananda, C.M.

Nandagopan, O.R. 381

Nandakumar, C.G. see Nandagopan, O.R.

Narayan, Shiv, 249

Nayak, N. 369

Negi, S.S. 543

Pai, A.B. see Parameswaran, A.P.

Pantoja, John J. 386

Parakh, Shreyans see Sekhar, G. Chandra

Parameswaran, A.P. 413

Paranjape, Hemant V. see Kulkarni, Abhijit S.

Pavan, P.S. Sai, 210

Peña, Néstor M. see Pantoja, John J.

Pengxian, Fan, 363

Pitchammal, R. 174, 192

Porwal, Sudhir, 89

Prabhakar, N. 456

Pradeep, N. see Ray, Sabooj

Prasad, Sahab see Lonkar, C.M.

Pratap, Gaurav see Singh, Manmohan

Qiang, Zhang, 114

Rachidi, Farhad see Pantoja, John J.

Rajan, P.M. Soundar, 129

Ramchandran, P. see Anandrao, K. Sanjay

Ramdayal, 331

Ran, Xian-Wen see Ding, Yu-Qing

Rao, Shrikantha see Shettigar, A.K.

Rao, Y.S. see Mishra, A.

Rao, G. Venkateswara see Anandrao, K. Sanjay

Rasane, V.S. see Babu, A. Sudheer

Ray, Sabooj, 186

Reddy, K. Maheswara see Kulkarni, Abhijit S.

see Renuka, D.V.

Reddy, G. Satheesh, 131

Renuka, B. see Pavan, P.S. Sai

Renuka, D.V. 611

Robert, P. see Tissot, J.L.

Roman, Francisco see Pantoja, John J.

Sachdev, Sunil see Singh, Manmohan

Sadana, Mukesh see Singh, Manmohan

Sadda, Vikrant see Pitchammal, R.

Salian, Giridhar see Shettigar, A.K.

Sarala, S. see Pitchammal, R.

Saraswat, V.K. see Reddy, G. Satheesh

Sarkar, Chiranjit, 408

Sekhar, G. Chandra, 15

Seong, Woojae see Zhao, Dexin

Shah, Vaibhav, see Arora, Konark

Shankar, Ravi, 145, 181

Sharma, K.K. 41

Sharma, Rakesh Kumar see Khan, Abdul Wadood

Sharma, Shobha see Sharma, K.K.

Shekar, Himanshu, see Babu, A. Sudheer

Shettigar, A.K. 429

Shetty, Satish K. see Singh, Sunita Awasthi

Shitole, Kirti D. 435

Shivhare, Abhishek see Gupta, Satish Chandra

Shtrichman, Itay see Klipstein, Philip

Singh, Arjun 622

Singh, Beer see Suresh, S.

Singh, Dheerender see Gupta, Satish Chandra

Singh, Gagandeep, 292

Singh, M.P. see Kushwaha, N.K.

Singh, Manjit see Singh, Arjun

Singh, Manmohan, 571

Singh, Sunita Awasthi, 214

Sinha, P.K. see Javed, Afroz Sivaraman, P. see Nayak, N. Snyman, I.M. 262 Sokolovic, Vlada, 451 Soni, Pramod see Singh, Arjun Srivastava, Alok see Singh, Arjun Stancic, Rade, see Sokolovic, Vlada Subba Rao, M. see Joshi, Raghavendra Suresh, S. 473 Swami, Het Ram see Ghai, Devinder Pal

Tang, Jiang see Zhu, Jiandong
Tang, Wen-Hui see Ding, Yu-Qing
Tata, Sunil Kumar see Prabhakar, N.
Thakur, Pragati see Shitole, Kirti D.
Thangaraj A. see Kambala, S.
Thiruvengadam, S.J. see Merline, A.
Thomas, Tessy, 254
Tinnes, S. see Tissot, J.L.
Tissot, J.L. 545
Tiwari, K.C. see Arora, Manoj K.
Tripathi, G.K. 153
Tripathi, P.K. see Parameswaran, A.P.

Unnikrishnan, A. see Kumar, N. Suresh

Vaidyanathaswami, R. see Kambala, S. Vaithiyanathan, V. see Prabhakar, N. Valarmathi, M.L. see Kumar, Mathi Senthi

Valsan, Sunil K. see Meharu, Gargi Vanitha, D. 204 Varaprasad, L. see Thomas, Tessy Vega, Félix see Pantoja, John J. Venkatesh, Anuya see Ghai, Devinder Pal Vijesh, P. see Kulkarni, Abhijit S. Vinatha, B. see Pavan, P.S. Sai Virmani, Jitendra, 478 Vuillermet, M. 550

Vyas, Naresh see Suresh, S.

Wang, Zhong-Qi see Bai, Chun-Hua WeiHua, Zhang, see DaoCheng, Xie

Xie, Wei Xin see Li, Qiu Sheng Xu, Junkui see Zhu, Jiandong

Yuan, Zhenlong see Hu, Jun

Zhang, Bo see Bai, Chun-Hua Zhang, Qi, 108 Zhang, Ruo-Qi see Ding, Yu-Qing Zhao, Dexin, 323 Zhao, Yongjun, see Zhu, Jiandong ZhongWei, Wang, see DaoCheng, Xie Zhou, Zhimin see Hu, Jun Zhu, Guofu see Hu, Jun Zhu, Jiandong, 315