# Department of Electronics and Communication Engineering

## AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY

| 8th International Conference on Signal Processing and Integrated Networks (SPIN 2021) | | | | | | |
|---|---|---|---|---|---|---|
| **Thursday, Aug 26, 2021** | Programme Schedule | | | | | |
| **9:30 am- 11:00 am** | **Inaugural Session (Auditorium-Online)** | | | | | |
| **11:00 am – 11:15 am** | Break | | | | | |
| **Venues** | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
| **11:15 am – 11:45 am** | Invited Talk 1 | | Invited Talk 2 | Invited Talk 3 | Invited Talk 4 | Invited Talk 5 | Invited Talk 6 |
| | Prof. Yury Shestopalov | | Prof. Michael Milford | Mr. Satya N. Gupta | Dr Mehmet Emir Koksal | Dr Wenwu Wang | Prof. Prasad Shastry |
| **11:45 am – 1:15 pm** | 1A-Image and Video Processing-I | 1B-Cloud computing, 5G &IoT-I | 1C-Signal Processing-I | 1D-Computational Electromagnetics, RF, Microwave & Antenna-I | 1E-Wireless Communication-I | 1F- Machine Learning, AI, Neural Networks-I | 1G-Aerospace Systems- I |
| **Session Chair** | Dr Rohit Tripathi | Dr Basant Kumar | Prof Parthasrthi | Dr Smriti Agarwal | Dr Mehmet Emir Koksal | Dr Wenwu Wang | Prof. M S Prasad |
| | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) |
| | 71 | 65 | 165 | 19 | 127 | 35 | 5 |
| | 73 | 139 | 235 | 44 | 397 | 138 | 67 |
| | 74 | 181 | 440 | 49 | 499 | 269 | 94 |
| **(Session –1)** | 313 | 229 | 555 | 274 | 519 | 312 | 114 |
| | 425 | 501 | 588 | 341 | 532 | 604 | 217 |
| **1:15 pm – 1:45 pm** | Break | | | | | | |
| **Venues** | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
| **1:45 pm - 2:15 pm** | Invited Talk 7 | Invited Talk 8 | | Invited Talk 9 | Invited Talk 10 | Invited Talk 11 | Invited Talk 12 |
| | Dr. John Healy | Dr. Jaesung Hong | | Professor Ramakrishnan (Ram) Ramanathan | Prof. Afaq Ahmad | Dr Grigore Stamatescu | Dr Rafael Caldeirinha |
| **2:15 pm – 3:45 pm** | 2A-Image and Video Processing-II | 2B-VLSI and Microelectronics -I | 2C-Power System Modelling, Control Systems and Renewable Energy System -I | 2D-Computational Electromagnetics, RF, Microwave & Antenna-II | 2E- Optical &Wireless Communication-II | 2F- Machine Learning, AI, Neural Networks-II | 2G- Machine Learning, AI, Neural Networks-III |
| **Session Chair** | Dr. John Healy | Dr Subodh Wairya | Dr Z A Jaffery | Prof M R Tripathi | Prof. Afaq Ahmad | Dr Grigore Stamatescu | Dr Rafael Caldeirinha |
| | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) |
| | 100 | 149 | 179 | 151 | 50 | 415 | 161 |
| | 454 | 156 | 194 | 216 | 260 | 527 | 201 |
| **(Session –2)** | 462 | 220 | 352 | 253 | 310 | 571 | 346 |
| | 517 | 291 | 354 | 255 | 328 | 580 | 405 |
| | 544 | 395 | 408 | 293 | 458 | 585 | 500 |
| | | | 413 | | | | 538 |

| | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
|---|---|---|---|---|---|---|---|
| 3:45 pm – 4:00 pm | Break | | | | | | |
| Venues | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
| 4:00 pm – 4:30 pm | Invited Talk 13 | Invited Talk 14 | | Invited Talk 16 | Invited Talk 17 | | Invited Talk 19 |
| | Prof. Karu Esselle | Dr. Vijaykrishnan Narayanan | Dr. Ouri Wolfson | Dr. Biplob Ray | Dr. Michail (Michalis) Matthaiou | | Dr. Latif Ladid |
| 4:30 pm – 6:00 pm | 3A-Aerospace Systems-II | 3B-VLSI and Microelectronics -II | 3C-Robotics & Neural Networks | 3D- Machine Learning, AI, Neural Networks-IV | 3E- Machine Learning, AI, Neural Networks-V | 3F-Power System Modelling , Control Systems and Renewable Energy System-II | 3G- Machine Learning, AI, Neural Networks-VI |
| Session Chair | Dr Gurundh Velidi | Dr Amandeep Singh | Dr. Ouri Wolfson | Dr Yaduvir Singh | Dr. Michail (Michalis) Matthaiou | Dr. Shakti | Dr Digvijay Singh |
| | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) |
| | 218 | 20 | 37 | 171 | 202 | 22 | 32 |
| | 246 | 199 | 316 | 479 | 400 | 58 | 62 |
| (Session –3) | 428 | 264 | 439 | 502 | 401 | 115 | 117 |
| | 431 | 319 | 469 | 543 | 406 | 251 | 120 |
| | | 389 | | 610 | 411 | 523 | 343 |

Invited Talk by Prof. Boris Novikov (Time-5:30PM to 6:00 PM) , Invited Talk by Dr. Nasimuddin (Time-5:30PM to 6:00 PM), Invited Talk by Dr. Jacob Scharcanski (Time: 7:30PM to 8:00 PM) &Invited Talk by Dr. C. J. Reddy (Time: 7:30PM to 8:00PM) PM) , Invited Talk by Dr Ahmed Abdelgawad (Time 06:00 PM to 06:30)

### Friday, Aug27, 2021

| Venues | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
|---|---|---|---|---|---|---|---|
| 9:30 am - 10:00 am | Invited Talk 20 | Invited Talk 21 | Invited Talk 22 | Invited Talk 23 | Invited Talk 24 | Invited Talk 25 | |
| | Dr. Jung Han Choi | Dr. Sudhakar Rao | Dr. Tobias Fischer | Dr Li Chen | Dr saurav garg | Prof. Dr. Angela Amphawan | Dr Yong Guan |
| 10:00 am – 11:30 am | 4A- Machine Learning, AI, Neural Networks, Fuzzy Logic-VII | 4B- RF , Microwave & Antenna III | 4C- Machine Learning, AI, Neural Networks-VIII | 4D-Pattern Recognition ,Computer Vision & Network Security | 4E-Power System Modelling , Control Systems and Renewable Energy System -III | 4F-Machine Learning, AI, Neural Networks, Fuzzy Logic-IX | 4G-VLSI and Microelectronics -III |
| Session Chair | Dr. Jung Han Choi | Dr. Sudhakar Rao | Dr. Tobias Fischer | Dr Li Chen | Dr saurav garg | Prof. Dr. Angela Amphawan | Dr Shamim Akhtar |
| | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) |
| | 282 | 78 | 47 | 55 | 52 | 88 | 93 |
| | 339 | 417 | 51 | 137 | 68 | 140 | 108 |
| (Session –4) | 578 | 447 | 53 | 213 | 226 | 566 | 309 |
| | 586 | 486 | 75 | 426 | 547 | 590 | 421 |
| | 608 | 489 | 384 | 491 | 628 | 623 | 611 |
| | | | | 548 | | | 622 |
| | | | | | | | |
| 11:00 am-12:30 pm | Interaction with Industry Experts | | | | | | |
| 11:30 am – 11:45 am | Break | | | | | | |
| Venues | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
| 11:45 am – 12:15 noon | Invited Talk 26 | Invited Talk 27 | Invited Talk 28 | Invited Talk 29 | Invited Talk 30 | Invited Talk 31 | Invited Talk 32 |

| Time | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Dr Subramaniam Ganesan | | Prof. Levent Sevgi | Dr Soufiene Djahel | | Dr. Annalisa Bruno |
| 12:15 noon – 1:45 pm | 5A-Image and Video Processing-III | 5B-VLSI and Microelectronics -IV | 5C-Power System Modelling, Control Systems and Renewable Energy System -IV | 5D- Machine Learning, AI, Neural Networks-X | 5E- Cloud Computing, Blockchain & IOT-II | 5F- Machine Learning, AI, Neural Networks-IX | 5G- RF , Microwave & Antenna - IV |
| Session Chair | Prof Parthasarthi | Dr Anupama Mehra | Dr Amit Kumar Choudhry | Prof. Levent Sevgi | Dr Soufiene Djahel | Dr Sindhu Hak Gupta | Dr. Annalisa Bruno |
| (Session –5) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) |
| | 87 | 153 | 82 | 121 | 210 | 445 | 383 |
| | 268 | 154 | 97 | 124 | 219 | 456 | 533 |
| | 279 | 168 | 263 | 143 | 254 | 459 | 539 |
| | 371 | 186 | 488 | 144 | 296 | 461 | 540 |
| | 451 | 212 | 530 | 234 | 363 | 468 | 581 |
| | | 215 | 542 | | | | |
| 1:45 pm – 2:00 pm | Break | | | | | | |
| Venues | On-line (Room1) | Online (Room2) | Online (Room3) | Online (Room4) | Online (Room5) | Online (Room6) | Online (Room7) |
| 02:00 PM – 2:30 PM | Invited Talk 33 Dr. Sunil Vadera | Invited Talk 34 Dr.Vincenzo Piuri | Invited Talk 35 Dr. Pavel Loskot | Invited Talk 36 Prof. Maribel Fernandez | | Invited Talk 37 Dr. Carlos Travieso González | Invited Talk 38 Prof. Tim O'Farrell |
| 02:30 PM – 4:00 PM | 6A-VLSI and Microelectronics -V | 6B- Machine Learning, AI, Neural Networks, Fuzzy Logic-XII | 6C- Optical and Wireless Communication-III | 6D- Cloud Computing, Blockchain,5G & IOT-III | 6E-Computational Electromagnetics, RF, Microwave & Antenna-V | 6F- Machine Learning, AI, Neural Networks-XII | 6G- Machine Learning, AI, Neural Networks-XIII |
| Session Chair | Dr. Sunil Vadera | Dr.Vincenzo Piuri | Dr. Pavel Loskot | Prof. Maribel Fernandez | Dr R L Yadav | Dr. Carlos Travieso González | Prof. Tim O'Farrell |
| (Session –6) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) | (Paper-ID) |
| | 292 | 338 | 227 | 243 | 31 | 320 | 46 |
| | 335 | 350 | 332 | 306 | 126 | 441 | 147 |
| | 399 | 358 | 355 | 315 | 351 | 522 | 170 |
| | 450 | 373 | 364 | 333 | 376 | 525 | 214 |
| | 452 | 531 | | 457 | | 567 | 513 |
| | 554 | | | | | | |
| 3:00 pm – 4:30pm | Valedictory Session (Auditorium-Online) | | | | | | |

\* All these papers are subjected to full compliance of submission and registration guidelines of SPIN 2021. Please refer the conference website http://www.amity.edu/spin2021/