GNU Radio Conference 2023

Tuesday, 5 September 2023

Main Track - Arizona (MU 221) (11:00 - 12:00)

time	[id] title	presenter
11:00	[123] IQEngine Project Update and Demo	LICHTMAN, Marc
11:30	[148] From 4.4 to 440: Another year of USRP and UHD Updates	BRAUN, Martin

Main Track - Arizona (MU 221) (13:00 - 14:40)

time	[id] title	presenter
13:00	[129] Design and implementation of a multi-node optical wireless communication testbed for centralized configuration and adaptation of system parameters using GNURadio's XML-RPC and ZMQ modules	ONWUCHEKWA, Chukwunodebem RAHAIM, Michael
13:15	[121] GNU Radio and the Allen Telescope Array	FARAH, Wael
13:45	[131] Ad Hoc Sensor Nets used in a Rail Enviroment	Mr ALLDRITT, Michael
14:15	[115] Low-Cost Educational Kit for 21-cm Observations of the Milky Way	BERKHOUT, Lindsay Ms BERKHOUT, Lindsay
14:30	[135] Visualization of Signal Processing for Radio Astronomy	ASHCROFT, Kaitlyn

Main Track - Arizona (MU 221) (15:20 - 17:00)

time	[id] title	presenter
15:20	[101] Lo and behold, no LO! Direct Sampling techniques in SDR	BRAUN, Martin
15:50	[106] Evaluating GPP Predictors for Software Based Waveform Performance	BLAIR, William
16:05	[136] Automatic Classification of FEC	TURNER, Rafael
16:35	[111] GNU Radio realization of Waveform Co-design for Joint Radar-Communications system using SDRs	DOLY, Shammi A.

Wednesday, 6 September 2023

Main Track - Arizona (MU 221) (11:00 - 11:45)

time	[id] title	presenter
11:00	[132] WSDR - web based SDR platform for learning, hacking and callobaration	AVTUSHENKA, Andy
11:30	[154] Sponsor Talk: Analog Devices	

Main Track - Arizona (MU 221) (13:00 - 14:45)

time	[id] title	presenter
13:00	[102] BLADE: The Allen Telescope Array CUDA-accelerated Real-Time DSP Library	CRUZ, Luigi
13:30	[104] Beamforming Using Volumetric Arrays and Computer Vision	CAMPBELL, Bailey
14:00	[130] Implementation of Software-Defined Antenna and Radio Test System for Congested Spectral Environments	Dr RAHAIM, Michael
14:15	[97] Phased Array FMCW Radar using the "Phaser" and GNU Radio Companion	KRAFT, Jon THOREN, Mark

Main Track - Arizona (MU 221) (15:20 - 16:50)

time	[id] title	presenter
15:20	[113] Ultra-wideband SDR architecture for AMD RFSoCs using PYNQ based GNU Radio blocks	Mr SIAUCIULIS, Marius
15:35	[117] Employing GNU Radio for Robust Testing of the Novel DASH SoC	SILBERNAGEL, Drake HEMANTH, Prithvi SIDDIQUI, Saquib CHIRIYATH, Alex
15:50	[110] Phase coherence in Radio Interferometry: using, and measuring, White Rabbit with GNU Radio	BOVEN, Paul
16:20	[159] SETI Institute	STEEL, Simon

Thursday, 7 September 2023

Main Track - Arizona (MU 221) (11:00 - 11:45)

time	[id] title	presenter
11:00	[120] Polymorphic Types of the Future	SALLAY, John

Main Track - Arizona (MU 221) (13:00 - 15:00)

time	[id] title	presenter
13:15	[103] Behind CyberEther: Metal Hardened Portable GPU Accelerated Interface	CRUZ, Luigi
13:45	[164] The Future of Spectral Use	Prof. BLISS, Dan
14:15	[139] High Accuracy Wireless Timing Synchronization Using Software Defined Radios	MERLO, Jason M.

Main Track - Arizona (MU 221) (15:20 - 17:05)

time	[id] title	presenter
15:20	[142] TorchSig Update	VANHOY, Garrett
15:35	[143] Amateur Radio, DSP and GNU Radio	MCQUIGGIN, Kevin
16:05	[144] General-Purpose Phased Array Learning Kit: Efficient Interference Mitigation	GETZ, Robin

Friday, 8 September 2023

Main Track - Arizona (MU 221) (09:00 - 09:30)

time	[id] title	presenter
09:00	[128] Receiving Faxes with GNU Radio	DEMORAT, Matthew

Main Track - Arizona (MU 221) (10:30 - 11:45)

time	[id] title	presenter
10:30	[114] File Transfer using Packet and BPSK	DUGGAN, Barry
11:00	[118] Demodulation demonstration using the LightCube CubeSat	BERKHOUT, Lindsay BERKHOUT, Lindsay
11:15	[95] Measuring time delays with sub-sampling period resolution: qualification of some COTS SDR RF frontends with sub-100 ps resolution	FRIEDT, Jean-Michel

Main Track - Arizona (MU 221) (13:00 - 14:45)

time	[id] title	presenter
13:00	[98] Wireless Signal Processing Education	SEVER, Murat SEVER, Murat
13:15	[93] Design of a 1296 MHz SDR Radio System for EME	ROSENAUER, Dennis
13:45	[105] A brief overview of the ALBATROS cosmology experiment	MCGEE, Francis
14:00	[99] ALS162 Time Signal SDR Receiver for GNU Radio	MAIER, Henning
14:15	[116] Open-Source Antenna Pattern Measurement System: Collaborative Development and Applications	Dr WEST, Jonathn

Main Track - Arizona (MU 221) (15:20 - 16:20)

time	[id] title	presenter
15:20	[119] Advancing Ground Station Capabilities: A Web-based Application with GNU Radio for Seamless Satellite Tracking and Communication	RIVERA, Adriana
15:35	[126] OFDM Based Joint Communications and Human Vital Sign Sensing with GNU Radio	AKKSHAI VENKATARAMANI, Adarsh LENZ, Isabella
15:50	[133] Introducing RSESS: An Open-Source Enumerative Sphere Shaping Implementation Coded in Rust	Mr RITTER, Frederik