

IEEE Workshop (Virtual):

Reliable and Resilient Digital Manufacturing

September 16 Agenda (All times of US Eastern Times)

10.00 Aivi Welcollie - Mikilli Gapta (Mew Tolk Olliversity)	10:00 AM	Welcome - Nikhil (Gupta (New York University)
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Manufacturing Security - The Necessity, Needs and Trends

10:30 AM **Keynote - Andrew Wells (National Science Foundation)**

NSF Support for Reliable and Resilient Digital Manufacturing

Shuran Song (Columbia University) 11:30 AM

2:00 AM Don Jones (Carlisle & Co.)

Balancing 3D Printing Opportunities and Security for Aftermarket Parts

2:30 AM Break

Jitesh Panchal (Purdue University) :00 PM

Design of Traceability and Anti-counterfeiting Schemes for Mechanical Parts

Mohammad Al-Faruqe (University of California - Irvine) 1:30 PM

Attacks and Defenses through Side-channels of Manufacturing Systems

2:00 PM **Danny Huang (New York University)**

Toward Characterizing Behaviors of Open-source Contributors for Manufacturing

Software to Identify Security Risks

2:30 PM Satish Bukkapatnam (Texas A&M University)

> Cybersecurity for Smart Manufacturing: From Industrial Quality and Integrity to Security Assurance

Day 1 Closing 3:00 PM

SEPTEMBER 16 & 17 10:00AM - 3:00PM US EDT

https://r2dm-workshop.github.io/ Register at: https://r2dm2021.eventbrite.com/









IEEE Workshop:

Reliable and Resilient Digital Manufacturing

<u>September 17 Agenda (All times of US Eastern Times)</u>

10:00 AM Welcome - Nektarios Tsoutsos (University of Delaware)

10:30 AM Keynote - Paul Huang (Office of Naval Research)

Navy Manufacturing Technology (MR) Program

11:30 AM Mark Yampolskiy (Auburn University)

Security Threats in AM: Attacks within Cyber and Beyond

12:00 AM Eric MacDonald (University of Texas - El Paso)

AM of Elastomer, Ceramic and Metal Multi-functional Structures

12:30 AM Break

1:00 PM Student Presentations

Judges: Mihail Maniatakos (NYU-Abu Dhabi) and Yan Lu (NIST)

Dimitris Mouris: Peak Your Frequency: Advanced Search of 3D CAD Files in the

Fourier Domain

Harsh Srivastava: Determination of Volume Fraction of Fibre Reinforced

Composite Materials using Image Processing Techniques

Caleb Beckwith: Threat Vector Analysis - Finding Fault in the Pile

Lars Folkerts: FSS: Fourier Silhouette Search

Praveen Sreeramagiri: Actor-Network Theory as a Tool to Analyze Cyber Threats

in Manufacturing

3:00 PM Workshop Closing

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