PROGRAM

20TH ISCFS PRE-CONGRESS SYMPOSIUM

ARTIFICIAL INTELLIGENCE (AI) & EXTENDED REALITY (XR): THE FUTURE OF CRANIOFACIAL SURGERY

Hyatt Regency SEATTLE USA | **SEPTEMBER 5, 2023**

CONGRESS CHAIR:
Richard Hopper (United States)

SYMPOSIUM CO-CHAIRS:
Sam Browd (United States)
Raj Vyas (United States)

8:00 WELCOME AND INTRODUCTIONS

Overview of Congress & Pre-Congress Symposium
Richard Hopper (US)

Surgery After COVID: Moving Beyond Telehealth Into Our Future
Raj Vyas (US)

Introduction Keynote Presenter
Sam Browd (US)

8:15 - 9:05 SYMPOSIUM KEYNOTE PRESENTATION

Edgar Auslander (United States)
Senior Director, Head of Strategic Partnerships and Intelligence at Meta
(aka Facebook)

9:05 - 10:50 PANEL 1: ARTIFICIAL INTELLIGENCE (AI) IN CRANIOFACIAL SURGERY: DATA & DECISION-MAKING

Automated Syndrome Diagnosis by Three-Dimensional Facial Imaging
Benedict Hallgrimsson (Canada)

Machine Learning for Cephalogram Mapping and CT Artifact Reduction
Soh Nishimoto (Japan)

Neural Networks Trained for Synostosis and Microtia: Diagnosis & Outcomes
Alex Kane (United States)

AI & Data-Sharing to Rank Severity of Metopic Synostosis – Yes or No to Surgery
Jesse Goldstein (United States)

Identification of Cleft Anthropometry to Facilitate AR/VR Training
Ross Sayadi (United States)

Face Value: Machine Learning for Improved Surgical Outcomes
Owase Jeelani (United Kingdom)

Automated Virtual Planning Using AI and Statistical Shape Models
Marc Metzger (Germany)

AI Powered Cleft Care: From Handcrafted to Automated PSO and from Multi-Step to Single-Step
Andreas Mueller (Switzerland)

Discussion & Questions

10:50 - 11:10 COFFEE BREAK

11:10 - 11:35 ETHICAL CONSIDERATIONS OF ARTIFICIAL INTELLIGENCE IN CRANIOFACIAL SURGERY

Christian Vercler (United States)

11:35 - 13:00 PANEL 2: EXTENDED REALITY IN CRANIOFACIAL SURGERY: SURGICAL PLANNING, KNOWLEDGE/SKILL TRANSFER & INTRAOPERATIVE GUIDANCE

Simulation in Cleft Training: Moving from Digital to Virtual
Roberto Flores (United States)

VR for Virtual Surgical Planning in Craniofacial Surgery
Pravin Patel (United States)

AR/VR Live Continuous Navigation and Data Acquisition
Sam Browd (United States)

AR Using Wearable Glass Tech & Computer Vision for Planning and Navigation
Christian El Amm (United States)

Spatial AR with 3D Surface Projection for Remote Intra-Operative Guidance
Raj Vyas (United States)

Discussion & Questions

13:00 - 14:00 LUNCH

14:00 - 16:00 HANDS-ON TECHNOLOGY FAIR

Network and try out the latest technology in AR, VR, robotics and simulation.

16:00 - 17:25 PANEL 3: FROM IDEAS TO CREATION

AI/XR in Healthcare: Navigating the FDA
Ryan Douglas, Co-Founder and CEO, DeepWell DTX (United States)

Building Biomedical Devices: Steps and Pitfalls
Scott Phillips, President, StarFish Medical (Canada)

Funding Computational Health and Healthcare Innovation
Armen Vidian, Venture Capitalist (United States)

Protecting your IP & Other Legal Considerations
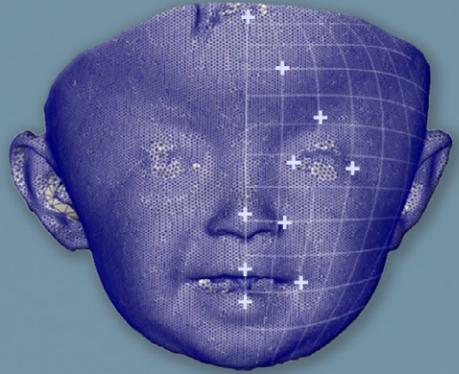Mark Gardner, MBA JD, Gardner Law (United States)

Discussion

17:25 CLOSING REMARKS

POURQUOI PAS?

INTERNATIONAL SOCIETY OF CRANIOFACIAL SURGERY

ISCFS
International Society
of Craniofacial Surgery

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