

Program of NSF CBL Semiannual Meeting 2018

Creating Intelligence







November 26 - November 28, 2018, Eugene, OR

Reception - Monday, November 26, Ford Alumni Center Ballroom

6:30pm - 8:30pm Welcome Reception (Ford Alumni Center - Ballroom)

		Day 1: Tuesday, November 27, Ford Alumni Center Ball	room			
8:00am	P	ticipant Registration				
8:00am - 8:30am	n B	eakfast and Networking Time				
8:30am - 8:45am	n W	Icome Remarks (Dr. David O. Conover, Vice President for Research&Innovation, UC	0)			
8:45am - 9:15am		nter Updates (CBL Directors)				
9:15am - 9:30an		lustry Advisory Board Introductions (IAB Chairs)				
9.10dill - 9.00dill		middany Advisory Bodie introductions (IAB Origins)				
9:30am - 9:35am	n N	FIUCRC Overview and Welcome (Dr. Dmitri Perkins, NSF Program Director)				
9:35am -9:50am	n C e	ffee Break				
9:50am - 10:20ar	m L	vel of Interest Feedback Evaluation (LIFE) Form Overview (Ms. Connie Chang, Center E	valuator)			
10:20 am - 12:20		oject Review Presentations (DL Systems and Models) and LIFE hair: Andy Li				
(8m+2m) * 10	10	rojects: 8 minutes presentation and 2 minutes for QA and LIFE Form by IAB members	PIs			
F	P001 B1-	Deep Cloud: An Intelligent Platform by the Community and for the Community	Andy Li (UF), Yugi Lee (UMKC), Allen Malony (UC			
F	P002 F1-	Bidirectional Deep Learning Architecture for Scene Understanding	Jose Principe (UF)			
F	P003 M1	Deep Learning for Future Video Compression Zhu	Li, Sejun Song (UMKC)			
F	P004 O2-	Ontology-based Deep Learning with Explanation for Human Behavior Pred	iction Dejing Dou (UO)			
F	P005 F2-	GraphBTM: Graph Enhanced VAE for Biterm Topic Model	Andy Li (UF)			
1	15 Minute	s Break.				
F	P006 M2	Smart-ARM: Smart Streaming Telemetry for Agile and Resilient Manageme Wireless and Mobile Software Defined Networking	nt of Sejun Song (UMKC)			
F	P007 F3-	TPR Learning: a Symbolic Neural Approach for Vision Language Intelligence				
F	P008 F4-	Adaptive Manifold Learning for Multi-Sensor Translation and Fusion given Missing Data	Alina Zare, Paul Gader (UF)			
F	P009 <u>O4</u>	Multilingual Knowledge Alignment with Embedding Representation Learn	ing Ji Wu, Dejing Dou (UO)			
F	P010 M3	Mobile Edge Depth Sensing and Point Cloud Services for Auto Driving	Zhu Li (UMKC)			
12:30pm - 1:30p 1:30pm - 3:30pm	n Pr o	h ect Review Presentations (DL Applications: Business, Health, IoT, Security) and LIFE I sion Chair: Zhu Li	Form			
(8m+2m) * 10		rojects: 8 minutes presentation and 2 minutes for QA and LIFE Form by IAB members	Pls			
,	P011 M5		Zhu Li (UMKC)			
	P012 O5	, , , , , , , , , , , , , , , , , , , ,	Zhibin (Ben) Yang (UO)			
	P013 O3		NhatHai Phan (NJIT/UO)			
P	— -2014 F7	Intelligent Assistant Platform	Andy Li, Dapeng Wu, Amy Pan (UF)			
	D015 F6		Danana Wu (UE)			

Machine-Learning-Enabled Video Coding Strategy for Object Detection

Dapeng Wu (UF)

CBL Host: University of Oregon

P015 F6-V

Location: Ford Alumni Center, Ballroom, 1720 E 13th Avenue, Eugene, OR Contact: Dejing Dou (1-541-221-0425) or Gong (Eric) Zhang (1-206-747-9971)

15 Minutes Break.

		Pls	
P016 F5-T	DeepSLAM: Visual Intelligence for Navigation and Planning	Warren Dixon, Andy Li (UF)	
P017 M4-V	Querying Images via Knowledge Graphs	Praveen Rao (UMKC)	
P018 O6-T	Advanced Product Differentiation using Deep Learning	Joe Sventek (UO)	
P019 O7-H	Using Machine Learning to Discover How the Brain Works	Allen Malony (UO)	
P020 O1-N	Semantic Deep Learning for Electronic Health Records	Dejing Dou (UO)	

3:30pm - 3:45pm Coffee Break

3:45pm - 5:15pm New Site Presentation and Poster Sessions (Poster Exhibition and Demos) Session Chair: Dejing Dou

_1 potential new site (Northwestern): 15 minutes presentation and 5 minutes for QA		PI
P021 N1-H	Al in Medicine Research at Northwestern	Aggelos K. Katsaggelos (Northwestern)
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S001-S020	S001-S020 posters are for the same 20 projects as the P001-P020 presentations	Pls
S021 O8-B	Automatic Customer Service for Mobile Phone Users	Dejing Dou, Ji Wu (UO)
S022 M6-T	DeepRobo: Cognitive Robotics with Distributed and Collaborative Deep Learning	Yugi Lee (UMKC)
S023 M7-T	DeepLite: Deep Learning with IOT and Mobile Devices	Yuqi Lee (UMKC)

5:15pm - 6:15 pm **Closed IAB Meeting**

6:15pm - 6:30pm Review of evening and Day 2 activities (CBL Directors)

6:30pm - 8:30pm Dinner

Day 2: Wednesday, November 28th, Ford Alumni Center Ballroom

8:00am - 8:30am	Arrival and Breakfast
8:30am-10:00am	LIFE Form Review and Discussion (All)
10:00am -10:15am	Coffee Break
10:15am - 10:45am	CBL Business Discussions (CBL Faculty, IAB, and NSF): Budgets, Efforts, Center Model, etc
10:45am-11:15am	Closed IAB Meeting (NSF and IAB)
11:15am-11:30am	IAB Report Out
11:30am -12:00pm	Panel Discussions (IAB representatives and CBL Faculty members)
12:00pm-12:20pm	Action Items and Plans for Next Semiannual Meeting (IAB, NSF, and CBL Directors)
12:20pm-12:30pm	Summary and Closing Remarks (All)
12:30pm - 1:30pm	Lunch
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Adjourn

Notations		WiFi Access Information
Team	Site#index-ProjectCategories for all talks	
Presentations	For LIFE Form online, we use P1 to P20 to index the presented projects.	1. Guest Wireless Select UO Guest on your device Create an account for 7-day Internet access at no cost 2. Eduroam Select eduroam on your device Log in with your username and password from your home institution
Posters	We use S1 to S20 to index the posters of the presented projects. Additional Posters include S21-S23.	
Site/Center-wide Team	B for CBL, F for UF, O for UO, M for UMKC, N for Northwestern	
Project Categories	M for Models and Algorithms, S for Systems and Platforms, and A for General Applications (B for Business, C for Cybersecurity, H for Health and Biology, N for NLP, V for Vision, T for IoT and Robotics)	

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