Name	Organisation	Link	Title of Abstract	Description
Shao Hongxu	AXA Insurance Singapore	https://www.youtube.com/watch?v=L0fXuYXd088	Tic Tac Toe game agent with Reinforcement Learning model	An quick introduction for 1 of my side project, to cre
Christian Alvin H. Buhat, Destiny SM.	Institute of Mathematical Sciences and Physics,	https://youtu.be/GfMX83b42NU	Agent Based Model of COVID-19 Infection inside a Train Wagon using NetLogo	The model simulates the spread of COVID-19, an ir
Lutero, Yancee H. Olave, Monica C.	University of the Philippines Los Banos			train wagon. The model explores the effects of factor
Torres, Jomar F. Rabajante				number of infected individuals. We determine these
				individuals (infected or not) in a train wagon. Result
				trains, and in other mass transportation system as v
Matias Quintana, Stefano Schiavo,	National University of Singapore	https://youtu.be/2AS5h2tVvnU	Balancing thermal comfort datasets: We GAN, but should we?	Thermal comfort assessment for the built environme
Tham Kwok Wai, Clayton Miller				and subjective feedback methods. These data can
				efficiency and well-being. Occupant subjective feed
				indicating otherwise are less common. This situation
				techniques from the literature and propesses a power
				imbalance scenario. These approaches are applied
				of thermal comfort datasets with 1 474 2 067 and
				balanced dataset, comprised of real and generated
				classification accuracy) than other augmentation me
				the increase in performance shrinks to 1-2%. These
				advanced techniques such as GANs, but its value is
				determining for which scenarios this process is usef
Garima Sharma	Monash University	https://youtu.be/mchtKg-fjJM	Automatic group affect analysis	In day to day life people like to spend time in a com
				use this perceived affect for various tasks. Most of t
				the group level emotion in a real-world environment
				scenarios such as face tracking limitations, lituminations
				large variations in terms of gonder, ethnicity, the ter
				large variations in terms of gender, eurnicity, the typ
Jiafei Duan, Samson Yu, Hui Li Tan,	A*STAR Artificial Intelligence Initiative, Institute for	https://www.youtube.com/watch?v=nZAegJgGe8E	ActioNet: An Interactive End-to-End Platform For Task-based Data Collection and Augmentation in 3D Environment	The problem of task planning for artificial agents rer
Cheston Ian	Infocomm Research, A*STAR			the study of task planning for artificial agents, large-
				the largest task based dataset of over 3000 biorard
				was further upscale by 50 fold into 150 000 apportat
				catalyze research in the field of Embodied AI
Laura Zanella, Yannick Toussaint	LORIA (Université de Lorraine, CNRS, Inria)	https://www.youtube.com/watch?v=fgE8gZNLAog&t=4s	A Deep Learning Approach for Biomolecular Event Extraction in Scientific Documents	Biomolecular scientific documents are producing ve
				slow, inaccurate and the extraction of knowledge is
				exploited. Therefore, the development of an event e
				knowledge that can be presented in biomolecular te
				Short Memory and Convolutional layers is presented
				entities identification and classification, triggers iden
				shown a summary with the current limitations of eve
Saeid Amiri	SUNY Binghamton	https://voutu.be/fZCICV2bQ5U	Multi-modal Predicate Identification using Dynamically Learned Robot Controllers	Service robots capable of executing multiple actions
	5			are modelling the problem of predicate identification
Joaquim de Moura, Jorge Novo, Marcos	University of A Coruña	https://youtu.be/utJonFjXNWc	Deep Feature Analysis in a Transfer Learning-based Approach for the Automatic Identification of DME	Diabetic Macular Edema (DME) is one of the most of
Ortega				different imaging modalities, Optical Coherence Tor
				for the diagnosis, monitoring and treatment of DME
				Divie using OCT images. Firstly, the method extract
				approach. Then, the most relevant subset of deep i
				retrieved from 400 different patients, being 200 with
				best accuracy of 97 50% using only 14 65% of the
				performance with respect to others approaches of the
				· · · · · · · · · · · · · · · · · · ·
M Ganesh Kumar	Integrative Sciences and Engineering, NUS	https://youtu.be/dg6s2At6a6Q	Trying to learn schemas for few-shot learning	Schemas are vaguely defined as a framework of kn
				placeholders to rapidly integrate new information to
				definition of what schema is and how it is learnt and
				my research is an attempt to model the behavioral proliminary result for my these at Netler al Links
		1	1	preniminary result for my thesis at National Universit

eate a Tic Tac Toe game agent with Reinforcement Learning model with pytorch infectious disease declared as a pandemic, in a confined space. In this study, we consider a ors such as crowd density, the protection level of individuals against infection, and initial e effects under the presence or absence of social distancing protocol, and interaction among ts from our model can help policy makers in their decisions with regards to the new normal in well

well. tent has become more available to analysts and researchers due to the proliferation of sensors be used for modeling comfort behavior to support design and operations towards energy dback by nature is imbalanced as indoor conditions are designed for comfort and responses on creates a scenario for the machine learning workflow where class balancing as a prefort classification. This paper investigates the various thermal comfort dataset class balancing modified conditional Generative Adversarial Network (GAN), comfortGAN, to address this d to three publicly available datasets, ranging from 30 and 67 participants to a global collection 166,397 data points, respectively. This work finds that a classification model trained on a d samples from comfortGAN, has higher performance (increase between 4% and 17% in nethods tested. However, when the number of classes available in the data is reduced to three, e results illustrate that class balancing for thermal comfort modeling is beneficial using is diminished in certain scenarios. A discussion is provided to assist potential users in fill and which method works best

pany. People are sharing large number of information online. This gives us the opportunity to the work in this area has been restricted to controlled environments. In this paper, we explore t. There are several challenges involved in moving from a controlled environment to real-world tion variations, occlusion and type of gatherings. As an attempt to address these t (VGAF)' dataset containing 4K videos downloaded from the web. The collected videos have a so of social event, number of people, pose, etc.

mains largely unsolved. While there have been increasing interest in data-driven approach for -scale comprehensive task-based dataset remains a bottleneck. Hence, we present ActioNet, on and augmentation of task-based dataset in the 3D environment and we have also collected chical task structure data and annotated video data across 65 individual Household tasks and ited task-based video dataset. With the aim of having such a platform and dataset, we can

ery fast; however, information extraction techniques applied to analyze these documents are performed in a superficial way, causing that the inference of new knowledge may not be being extraction model is proposed in this work, in order to extract more accurately and deeply the ext resources. For this purpose, a deep learning architecture based on Bidirectional Long ed. For the experiments, the performance of the model can be divided in three main stages, ntification and classification, events identification and classification. Finally, in this poster is ent extraction in the state of the art.

s need to use multi-modal sensory information to recognize object properties. In this work, we n using MOMDP controllers where the observation function is learned from dataset

common causes of vision impairment and blindness in individuals with diabetes. Among the omography (OCT) is a non-invasive ophthalmological imaging technique that is commonly used E. In this context, this paper proposes a new methodology for the automatic classification of cts a set of deep features from the target OCT images using a transfer learning-based features is selected using different feature selection strategies. Finally, a machine learning lemented method. The proposed methodology was validated using an OCT image dataset h DME and 200 normal cases. The proposed system achieved satisfactory results, reaching a e deep features in the classification of this ocular pathology, demonstrating also its competitive the state-of-the-art.

nowledge where chunks of information are associated with one another while having o make inferences or perform few-shot learning. However, we do not have a mechanistic d utilized in the brain by neural networks.

performance and hopefully the mechanism of schemas. The video an introduction to my ty of Singapore.