Time	Туре	Person	Title
9:00	Welcome	Mehrdad Sabetzadeh, Maleknaz Nayebi	Welcome and plan of the day
9:10	Keynote	Jinqiu Yang	Beyond Accuracy: Engineering Reliable Machine Learning Systems
10:00	Break		
10:30	New Faculty	Jessie Galasso	Representing and managing collections of similar SE artefacts
10:50	New Faculty	Cristiano Politowski	Advancing Automated Game Testing through Open-source Data Curation and Pattern Discovery
11:10	New Faculty	Ali Ayub	Long-Term Real-World Personalization for Autonomous Systems
11:30	New Faculty	Taher Ghaleb	Al4CI: Breaking Barriers, Unlocking Solutions
11:50	New Faculty	Hamid Mcheick	Design context aware healthcare framework
12:10	Postdoc	Aren A. Babikian	Safety Assurance of Automotive Systems in the Presence of Change
12:30	Lunch		
13:30	PhD talk	Mohammad Hossein Amini	Bridging the Gap between Real-world and Synthetic Images for Testing Autonomous Driving Systems
13:40	PhD talk	Mahtab (Mattie) Nejati	Understanding the Implications of Changes in Build Systems
13:50	PhD talk	Nimmi Rashinika Weeraddana	Dependency-Induced Waste in Continuous Integration: An Empirical Study of Unused Dependencies in the npm Ecosystem
14:00	PhD talk	Shayan Noei	An Empirical Study on Release-Wise Refactoring Patterns
14:10	PhD talk	Pouya Fathollahzadeh	Towards Refining Developer Questions using LLM-Based Named Entity Recognition
14:20	PhD talk	Hamed Taherkhani	Hallucination-aware LLM-generated test case validation
	PhD talk	Yiping Jia	Automated Function Synthesis with LLM Supported Agents
14:40	PhD talk	Jiho Shin	Domain Adaptation for Code Model-Based Unit Test Case Generation
14:50	PhD talk	Nima Shiri Harzevili	Checker Bug Detection and Repair in Deep Learning Libraries
15:00	Break		
15:30	Poster session starts		
16:55	Closing	Mehrdad Sabetzadeh, Maleknaz Nayebi	Next CSER, awards

Timestamp	Please indicate your full name	Please indicate the name of your supervisor
10-10-2024 11:00:25	Elmira Onagh	Dr. Maleknaz Nayebi
10-24-2024 22:07:39	Elim Lemango	Dr. Maleknaz Nayebi
10-23-2024 9:23:10	Nimmi Rashinika Weeraddana	Dr. Shane McIntosh
10-25-2024 11:12:33	Mohammad Hossein Amini	Dr. Shiva Nejati
10-18-2024 12:51:59	Huizi Hao	Dr. Yuan Tian, Dr. Ahmed E. Hassan
10-22-2024 19:41:57	Hamed Taherkhani	Hadi Hemmati
10-24-2024 14:28:24	Melika Sepidband	Hadi Hemmati
10-22-2024 15:15:54	Alireza Daghighfarsoodeh	Hung Viet Pham
10-23-2024 14:05:08	Chung-Yu Wang	Hung Viet Pham
10-22-2024 15:16:17	Faiz Ahmed	Maleknaz Nayebi
10-22-2024 15:41:28	Sharuka Promodya Thirimanne	Maleknaz Nayebi
10-25-2024 10:45:14	Ramin Sharifi	Maleknaz Nayebi - Zhen Ming Jiang
10-9-2024 20:10:53	Fares Hamouda	Marios Fokaefs
10-25-2024 21:07:31	Hasti Ghaneshirazi	Marios Fokaefs
10-25-2024 23:52:23	Hashim Khan	Marios Fokaefs
10-24-2024 15:22:14	Aren A. Babikian	Marsha Chechik
10-23-2024 7:08:51	Mahtab (Mattie) Nejati	Prof. Shane McIntosh
10-21-2024 10:04:27	Oluwafemi Odu	Professor Alvine Belle Boaye
10-22-2024 14:35:07	Gengyi Sun	Shane McIntosh
10-8-2024 19:56:35	Nima Shiri Harzevili	Song Wang
10-14-2024 0:00:25	Reem Aleithan	Song Wang
	Kimya Khakzad Shahandashti	Song Wang, Alvine Boaye Belle
10-7-2024 12:56:29		Song Wang, Hadi Hemmati
10-24-2024 16:24:44	Pouya Fathollahzadeh	Ying Zou
10-25-2024 16:30:39		Ying Zou
10-26-2024 20:50:06	Shayan Noei	Ying Zou

Please indicate the name of your current institut	Please indicate the email address we can best c
York University	eonagh@yorku.ca
York University	elim17@my.yorku.ca
University of Waterloo	nrweeraddana@uwaterloo.ca
University of Ottawa	mh.amini@uottawa.ca
Queen's University	huizi.hao@queensu.ca
York University	hamedth@yorku.ca
York University	sepidband.m@gmail.com
York University	aliredaq@yorku.ca
York University	cywang14@yorku.ca
York University	faiz5689@my.yorku.ca
York University	sharukat@yorku.ca
York University	ramins@yorku.ca
York University	hamoudaferes@gmail.com
York University	hastighsh@gmail.com
York University	hashimahmedkhan2002@gmail.com
University of Toronto	babikian@cs.toronto.edu
University of Waterloo	mattie.nejati@uwaterloo.ca
York University	olufemi2@yorku.ca
University of Waterloo	gengyi.sun@uwaterloo.ca
York University	nshiri@yorku.ca
York University	reem1100@yorku.ca
York University	kimya@yorku.ca
York University	jihoshin@yorku.ca
Queen's University	22pf2@queensu.ca
Queen's University	yiping.jia@queensu.ca
Queen's University	s.noei@queensu.ca

Please indicate your current position/Program	Please indicate the year of your studies MsC/Phl
Computer Science	2
Research Assistant	N/A
PhD	3
Ph.D. in Electrical Engineering and Computer Sc	2022 - 2026
MsC in Computing, area of study in Software Eng	Currently in second year of MsC. Short Bio: Huizi
PhD in computer science	PhD
Computer Science	PhD
Research Assistant - Student	MsC
Computer Science	second year MSc
Gradtuate Student/Computer Science	MSc
M.Sc. Computer Science	Recently Graduated
PhD EECS	First Year
Student	2nd year
Computer Science	4th year undergraduate
Research Assistant	graduated from bachelors
Postdoctoral fellow	postdoc 1
PhD Candidate	Release Pipelines, Build Systems, Mining Softwa
Master's Student/ Electrical Engineering and Cor	MsC/ Second Year
Ph.D	1st
Ph.D. candidate	5th PHD
Computer Science	MsC
Researcher	Graduated with MSc
PhD student	4th year
PhD student / Electrical and Computer Engineer	Third
Ph.D. student	3rd year
PhD Student	5

Please provide the title of your talk/poster Please provide a 250 words abstract for your pro

Extension Decisions in Open Source Software GitHub Marketplace, as an open-source software Anonymity in Developer Communities: Insights The paper is structured around two primary studions.

Dependency-Induced Waste in Continuous In dependent upon code from external packages (i.e. dependencies). Building upon external

Bridging the Gap between Real-world and Syr Deep Neural Networks (DNNs) for Autonomous D I would like to give a talk, with the title: "Under ChatGPT has significantly impacted software dev Hallucination-aware LLM-generated test case The generation of test cases using Large Langu TBA

Code Generation Benchmark for deep learnin The emergence of deep learning (DL) has revolu Application and optimization of prompt engine Large Language Models (LLMs) have demonstra Context Aware Recognition from Text and Cor Developers frequently share screenshots when p Retrieval-Augmented Editing of TensorFlow Al With the rapid growth of machine learning librarie Diagnostic Complexities in Modern UAV Syste The rapid development of unmanned aerial vehic DMBench: Load Testing and Benchmarking T Data migration refers to the set of tasks around t DMML: A Machine-learning Performance Mod Data migration between systems with varying cor Use of Large Langauge Models to generate \$ Software architecture plays a critical role in defini Safety Assurance of Automotive Systems in t In recent years, road vehicles have become incre Understanding the Implications of Changes in The maintenance of build systems imposes a cor SmartGSN: A Generative AI-powered Online \(\) Developing industry-wide standards and making RavenBuild: Context, Relevance, and Depend Continuous Integration (CI) is a common practice Checker Bug Detection and Repair in Deep Le Checker bugs in Deep Learning (DL) libraries are SWE-Bench+: Enhanced Coding Benchmark | Large Language Models (LLMs) are increasingly Program Slicing in the era of Large Language Program slicing is a critical technique in software Domain Adaptation for Code Model-Based Un Recently, deep learning-based test case general Towards Refining Developer Questions using In software engineering chatrooms, communication Automated Function Synthesis with LLM Supr LLMs have been used to conduct various coding An Empirical Study on Release-Wise Refactor Refactoring is a technical approach to increase the

posed talk/poster

: platform, is rapidly evolving, with an average annual increase of $41.23\$ % in new tools by new or ϵ es: an interview study with 34 early-career developers and a mining study analyzing 130,000 deve

riving Systems (ADS) are typically trained on real-world images and tested using synthetic images relopment practices, providing substantial assistance to developers in various tasks, including codinage Models (LLMs) is critical in ensuring the correctness of code in automated software development.

tionized various fields, enabling significant advancements in areas such as computer vision, nature ited impressive abilities across various tasks, particularly in software engineering. However, they str osting questions on Q&A platforms, yet the responses they receive rarely incorporate visual cues, s, accurate and detailed API documentation is essential to help developers effectively use these t cles has introduced unique technical challenges, creating a complex diagnostic landscape for inve ransferring data over a network between two systems, either homogeneous or heterogeneous, an ifigurations and data characteristics is critical for enterprises, often requiring significant time, cost, a ng the structure and behavior of a system. The process of architecting involves understanding the asingly software-driven: vehicles commonly integrate numerous software components, from infotai nsiderable overhead on software development. Since automated quality assurance methods are ra sure producers of mission-critical systems comply with them is crucial to foster consumer acceptanc adopted by modern software organizations. It plays an especially important role for large corporat critical yet {not} well-explored. These bugs are often concealed in the input validation and error-ch used in Software Engineering (SE) for coding assistance. To assess LLMs in practical coding task engineering, enabling developers to isolate relevant portions of code for tasks such as bug detect tion approaches have been proposed to automate the generation of unit test cases. In this study, on is often hindered by imprecise questions that cannot be answered. Existing research in this are tasks, such as code completion, code repairs and code generation. However, LLM's ability in gen he internal quality of software without altering its external functionalities. With the increased adoption

existing providers. In such a dynamic software ecosystem (SECO), making informed decisions about loper profiles. The interview study investigates developers' definition of anonymity, the activities for

from simulators. This approach results in training and test datasets with dissimilar distributions, which ng, testing, and debugging. Despite its widespread adoption, the impact of ChatGPT as an assista ant. However, many LLM-generated test cases are invalid, leading to reduced efficiency and potent

al language processing, and more. However, many DL systems are developed by domain experts re uggle with task-oriented prompts and generating accurate and reliable code due to a lack of specific forcing readers to interpret details from text alone. Inspired by the growing trend of visual communi ools. Modern software frequently undergoes updates—major, minor, and patches—to improve stab estigators, as malfunctions often blur the line between software bugs and hardware failures, making d the potential reformatting of this data. Combined with large volumes of data, resource constraints and resource allocation. To optimize this process, we developed a machine learning-based approach problem, finding appropriate solutions, and evaluating the final architecture to ensure it addresses nment systems to autonomous driving features. While the inclusion of such software-intensive featu arely applied to build specifications, the importance of the role peer code review plays in the mainte e. Producers of such systems can rely on assurance cases to demonstrate to regulatory authorities ions like Ubisoft, where thousands of build jobs are submitted daily. Indeed, the cadence of develc ecking code of DL libraries and can lead to silent failures, incorrect results, or unexpected program s, Carlos et al. introduced the SWE-bench dataset, consisting of 2,294 GitHub issues and pull requ ion, code comprehension, and debugging. In this study, we investigate the application of large lan we leverage Transformer-based code models to generate unit tests with the help of Domain Adapt a primarily focuses on improving question clarity using natural language processing techniques. Ho erating code for complex tasks is still limited. We aim to enhance code generation performance thro on of continuous integration and development (CI/CD), refactoring activities may vary within and ac

t market entry and product extension is critical for success and requires careful consideration. GitHu which they prefer anonymity, and their engagement with privacy policies. The study also assesses

ch can potentially lead to erroneously decreased test accuracy. To address this issue, the literatur nt in collaborative coding remains largely unexplored. To fill this gap, we analyze a dataset of deve tial errors in software systems. This work introduces a novel framework designed to automatically va

ather than software developers, creating coding challenges due to the complexity of DL workflows. fic prior knowledge and prompt engineering challenges. Existing approaches, like PAL, use code ge ication and advancements in image processing, our study explores how effectively images can be p ility and performance, but documentation often lags behind, leading to more documentation-related it difficult for investigators to pinpoint the root cause of flight anomalies. Understanding and reproduced the contract of th and variety in data models and formats, data migration can be critical for enterprises, as it can con ch to estimate transfer times for migrations based on system configurations and data properties. This the system's requirements. Traditionally, software architecting has been a manual and complex tas ures enhances the driving experience from the user's perspective, it also introduces significant safe nance of build systems is amplified. Yet prior work shows that the review process for build systems 3 how they have complied with such standards to help prevent system failure. Assurance cases are pment progress is constrained by the pace at which CI services process build jobs. To provide faste behavior in DL applications. Despite their potential to significantly impact the reliability and perform lests from 12 Python repositories. However, a systematic evaluation of the dataset's quality has beguage models (LLMs) to both static and dynamic program slicing, with a focus on Java programs. V ation (DA) at a project level. Specifically, we use CodeT5, a relatively small language model trained wever, existing techniques often overlook contextual nuances specific to software development, su ugh the collaboration of different agents. A feedback loop refines the generated code by categoriz ross different releases and be influenced by various release goals. However, there is a lack of exist

ib Marketplace offers an environment where developers can openly share tools for automating work whether presenting privacy policies in a format based on contextual integrity improves developers' ι

e suggests applying domain-to-domain translators to test datasets to bring them closer to the trainir lopers' shared conversations with ChatGPT in GitHub pull requests (PRs) and issues. In our first stu lidate test cases generated by LLMs by leveraging token probabilities. We evaluate our approach ս

Large Language Models (LLMs), like GPT-4o, have emerged as promising tools to assist in DL code eneration to address this but depend heavily on manually crafted prompt templates and examples, perceived and interpreted by state-of-the-art methods and Large Language Models (LLMs). To this ε 1 issues on GitHub and questions on Stack Overflow. Further analysis on the Stack Overflow questi lucing these incidents presents significant challenges in the unmanned aerial vehicle (UAV) industry sume a significant amount of time, incur high costs, and pose a significant risk if not executed corre is project extends the DMBench tool, which benchmarks data migration performance, by incorporation sk, heavily reliant on the architect's expertise and knowledge. This manual process presents several ty assurance challenges. A key particularity of automotive systems is the significant level of change suffers from a lack of build experts and effective tooling.To support the understanding of changes t mainly used in safety-critical areas (e.g., automotive, aerospace) to deal with high-risk concerns and er CI feedback, recent work explores how build outcomes can be anticipated. Although early results ance of DL-enabled systems built with these libraries, checker bugs have received limited attention. en lacking. This paper presents an empirical analysis of SWE-bench, focusing on the performance Ve evaluate the performance of four state-of-the-art LLMs—GPT-4o, GPT-3.5 Turbo, Llama-2, and on source code data, and fine-tune it on the test generation task. Then, we apply domain adaptat ch as programming languages, libraries, and versioning details. In this paper, we propose SENIR: a ing execution errors (e.g., compile errors, test failures, timeouts) and iteratively improving the output ing work to understand how practitioners distribute their refactoring activities in a release and their i

flows in open-source software. However, our preliminary analysis of this ecosystem revealed a signinderstanding. We found that early-career developers define anonymity as the state of not sharing

ng datasets. However, translating images used for testing may unpredictably affect the reliability, effectly, we manually examined the content of the conversations and characterized the dynamics of deversing nine test suites generated from three datasets across three LLMs. Our results suggest that to

e generation, offering potential solutions to these challenges. Despite this, current benchmarks, suc often producing inaccurate results. To overcome these limitations, we propose two novel strategies end, we introduce CORTEx, a novel method designed to identify programming context and extract b ions related to TensorFlow API documentation revealed that majority of these questions arise from i y. Current methods for analyzing flight incidents heavily depend on expert knowledge and manual in ectly. The ability to accurately and effectively predict these challenges and plan for proper resource. ng predictive modeling. Our method involved gathering detailed data from migration experiments, inc I challenges, such as inconsistency, inefficiency, and the risk of overlooking essential design pattern and variability that they encounter, which makes their safety assurance particularly challenging. On o build specifications (a key stage in the review process), we propose BCIA—an approach to summ d show to stakeholders that such systems are safe according to domain-specific criteria. Assurance show plenty of promise, the distinct characteristics of Project X—a AAA video game project at Ubis The complex nature of DL libraries, combined with the rapid pace of their development, has left a of SWE-Agent + GPT-4, which led the SWE-bench leaderboard during our study. Our analysis revea Gemma-7B—byleveraging advanced prompting techniques, including few-shot learning and chain-c ion to each target project data to learn project-specific knowledge (project-level DA). We use the Me an approach for S oftwarE -specific Named entity recognition, Intent detection, and Resolution statu t. The Repairer Agent fixes code based on error types and messages, while the Mentor Agent sumn mpact. Therefore, we empirically study the frequent release-wise refactoring patterns in 207 open-si

ificant functional redundancy among the provided tools in this SECO.\\We employed a graph-based identifiable information such as name, location, picture, and professional background. The mining s

ectiveness and efficiency of the testing process. Hence, this paper investigates the following ques relopers' sharing behavior. The main observations are: (1) Developers seek ChatGPT's assistance at ken probabilities are a reliable indicator for distinguishing between valid and invalid test cases, offer

ch as DS-1000, are limited, focusing primarily on small DL code snippets related to pre/post-process : TITAN and PET-Select. TITAN enhances LLM performance on task-oriented prompts by employing both code and text from images posted on Q&A platforms. CORTEx works by segmenting the image inadequate examples and documentation ambiguity. To address this, we propose DocChameleon, nterpretation of extensive amounts of data, making it particularly challenging to definitively determin time and budget allocation is vital for the proper execution of data migration. In this work, we introc cluding system features such as RAM, CPU, disk size, and the number of data streams, along with a ns and non-functional requirements. These mistakes during the design phase of the architecture ca one hand, automotive systems interact with a perpetually changing traffic environment, which musi arize the impact of changes to build specifications across the build configuration space. BCIA trave cases are usually very large documents that can span several hundred pages. Their management oft—present new challenges for build outcome prediction. In the Project X setting, changes that do gap in understanding how these bugs manifest, propagate, and affect the overall robustness of Al led significant issues: 32.67% of successful patches involved "solution leakage," where solutions we of-thought reasoning. Using a dataset of 100 Java programs derived from LeetCode problems, our thods2test dataset to fine-tune CodeT5 for the test generation task and the Defects4j dataset for is detection to analyze developer chatroom conversations. By leveraging the DISCO dataset, a con narizes successful fixes and identifies patterns to guide future repairs. These examples are integrate ource Java projects and their characteristics. Then, we analyze how these patterns and their transit

I approach to analyze the functional relationships between 6,983 "Continuous Integration" Actions study, motivated by the findings of the interview study, explores the extent to which developers shall

tions in the context of ADS: \emph{Could translators reduce the effectiveness of images used for Facross 16 types of software engineering inquiries. The most frequently encountered inquiry categoring a robust solution for improving the reliability of LLM-generated test cases in software testing.

ing tasks and lacking comprehensive coverage across the full DL pipeline, including different DL ph g a universal, zero-shot learning approach that eliminates the need for detailed task-specific instruction into various sections and identifying text within specific areas, significantly improving accuracy. Usi an automated TensorFlow API documentation augmentation method using Large Language Mode e whether failures stem from software bugs or hardware malfunctions, while the overall analysis proluce the concept of load testing and benchmarking for data migration to allow decision-makers for h data characteristics like total size, row count, and compression type. After cleaning and engineering n show up later, imposing high maintenance costs. This exhibit explores the potential of Large Land t be considered when defining system-level safety assurance and testing approaches, as prescribe rses the paths through which data and control flow in the prior and updated versions of the build sy (e.g., creation, conversion) is usually manual, which can be time-consuming, tedious, and prone to onot modify source code also incur build failures. We also observe that the code changes that have systems. To fill this gap, we present the first comprehensive study of DL checker bugs in two widelyere provided in the issue reports or comments. Additionally, 31.08% of the patches were questional experiments reveal that GPT-40 performs the best in both static and dynamic slicing across other LI project-level domain adaptation and evaluation. We compare our approach with (a) CodeT5 fine-tur nprehensive dataset of tagged chatroom conversations, SENIR achieves an 86% F-score for entity ed into a Retrieval-Augmented Generation (RAG) system, which retrieves similar cases to assist in c ions affect code quality. We identify four major release-wise refactoring patterns: early active, late a and 3,869 providers. We investigated the birth of functionalities and their evolutionary trajectory ov re identifying information across social coding platforms and how easily their professional profiles ca

NDS-DNN testing and their ability to reveal faults in ADS-DNNs? Can translators result in excessive to estimize include code generation, conceptual questions, and how-to guides. (2) Developers frequently expenses include code generation, conceptual questions, and how-to guides.

lases and input types. To address this, we introduce \tool, a novel benchmark dataset designed for tions. Using step-back prompting and chain-of-thought prompting, TITAN improves code generation ng Stack Overflow as our case study, we compare CORTEx's performance against Google Vision O els (LLMs) and the Retrieval-Augmented Generation (RAG) technique. DocChameleon generates ex cess remains time-consuming and potentially inconsistent. A particularly challenging aspect is the reigher efficiency and effectiveness when planning for such tasks. Our framework aims for extensibilit features, we applied a custom preprocessing pipeline to handle missing values, scale numerical fe guage Models (LLMs), like ChatGPT, to assist software architects in designing software to overcome d by existing international safety standards (e.g. ISO 26262). On the other hand, the software withi /stem to generate an Impact Knowledge Graph (IKG), which describes the impact of the change ac error. Several tools have been developed to assist argument developers in managing assurance c e an impact that crosses the source-data boundary are more prone to build failures than code chan used DL libraries, i.e., TensorFlow and PyTorch. Initially, we automatically collected a dataset of 2,4 ble due to weak test cases. Filtering out these problematic cases dropped SWE-Agent + GPT-4's re _Ms, achieving an accuracy of 60.84% and 59.69%, respectively. Our results also show that the LL ned on the test generation without DA, (b) the A3Test tool, and (c) GPT-4 on five projects from the I recognition, a 71% F-score for intent detection, and an 89% F-score for resolution status detection ode correction using methods like longest sequential matching and k-nearest neighbors.This collab ctive, steady active, and steady inactive. We find that adopting the late active pattern—characterize rer time by mining the version control history and different releases of the actions and identified earling the netrieved using this information. The findings reveal that developers have varying degrees of control history and different releases of the actions and identified earling the retrieved using this information.

i<mark>me overhead during simulation-based testing?} To address these questions, we consider three dor</mark> ngage with ChatGPT via multi-turn conversations where each prompt can fulfill various roles, such a

functional-level DL code generation, incorporating three key categorizations: DL phases (e.g., prethrough a streamlined process, refining scripts via post-processing to retrieve accurate results. PE1 CR, LLMs like ChatGPT-4 and Gemini 1.5 Pro, and state-of-the-art methods such as PSC2code an recutable code examples to tackle the lack of examples, clarifies ambiguities with detailed explanati production of flight incidents in Software-In-The-Loop (SITL) simulation environments. This process y and customizability to enable the execution of a greater variety of tests. Here, we present a proto atures, and encode categorical variables. We trained multiple regression models, including Decision these problems. We will present our progress in developing a collaborative process where LLMs ca n the automotive system itself is subject to variability, often in the form of over-the-air update, which ross the build configuration space. We develop BuiScout—a prototype implementation of BCIA for ases. However, most of these tools primarily focus on a single aspect of assurance case managem ges that do not impact data files. Since such changes are not fully characterized by the existing se 18 commits from TensorFlow and PyTorch repositories on GitHub from Sept. 2016 to Dec. 2023 us solution rate from 12.47% to 3.97%. Similar data quality concerns were found in SWE-bench Lite a Ms we experimented with are yet to achieve reasonable performance for either static slicing or dyna Defects4j dataset. The results show that tests generated using DA can increase the line coverage t outperforming existing models such as the one by [38] (78% F-score for NER). SENIR achieves a orative, feedback-driven approach shows promise in improving the performance of LLM-based code ed by increasing refactoring activities as the release approaches—leads to the best code quality. W

y adopters. Understanding the dynamics of the GitHub Marketplace is crucial for developers lata sharing across patterns on different platforms. Our findings from the mining

nain-to-domain translators: CycleGAN and neural style transfer, from the liter s unveiling initial tasks, iterative follow-up, and prompt refinement. (3) In collaborative codin

processing, model construction, training), input types (e.g., tabular, image, text), and machine le Γ-Select, a PET-agnostic model, tackles prompt engineering challenges by selecting the most suitated CodeMotion in interpreting code-related images. Our results show that CORTEx outperforms existions, and provides relevant YouTube tutorials and Stack Overflow posts for additional API knowledge requires recreation of flight conditions, environmental parameters, and system statistics are conditional approached the resulting and the

Tree, Random Forest, Gradient Boosting, and XGBoost, and evaluated them using metrics su an generate software architectures from textual system requirements through carefully

raises questions about the impact of said updates on the safety assurance procedur

CMake-based build systems. We use BuiScout to evaluate our approach through an empirical study ent, such as its automatic creation, and largely depend on the Model-Driven Engineering (MDE) met of features for build outcome prediction, state-of-the-art models tend to underperform. T

ing specific keywords related to checker bugs. Through manual inspection,

nd SWE-Bench Verified variants. To address these issues, we developed SWE-bench+, a refined d imic slicing. Through a rigorous manual analysis, we developed a taxonomy of root causes and failupy 18.62%, 19.88%, and 18.02% and mutation score by 16.45%, 16.01%, and 12.99% compared to 15% improvement in accuracy for entity recognition and a 10% improvement in predicting resolution generation for complex tasks.

'e observe that as projects mature, refactoring becomes more acti

ole Pr ing methods and LLM ge.We performed a comprehe

y of 10 thodolog

ataset consisure location to the abo

Timestamp	Indicate you full name	Indicate your current institute
10/3/2024 15:59:22	Ali Ayub	Concordia University
10/3/2024 16:49:41	Hamid Mcheick	University of Quebec at Chicoutimi
10/4/2024 10:48:53	Cristiano Politowski	Ontario Tech University
10/17/2024 11:18:36	Jessie Galasso	McGill University
10/22/2024 14:39:15	Taher Ghaleb	Trent University

Indicate your rank	Indicate the email we can best contact you	
Assistant Professor	ali.ayub@concordia.ca	
Full professor	hamid_mcheik@uqac.ca	
Assistant Professor	cristiano.politowski@ontariotechu.ca	
Assistant Professor	jessie.galasso-carbonnel@mcgill.ca	
Assistant Professor	taherghaleb@trentu.ca	

Indicate tentative title of your talk

Long-Term Real-World Personalization for Autonomous Systems

Design context aware healthcare framework

Advancing Automated Game Testing through Opensource Data Curation and Pattern Discovery

Representing and managing collections of similar SE artefacts

AI4CI: Breaking Barriers, Unlocking Solutions