

<Agenda Friday, April 13/>									
08.30-09.20	DOORS OPEN								
09.20-09.30	ROOM N10 ON STREAMING N11: OPENING BY CODEMOTION								
	KEYNOTES								
09.30-09.45	ROOM N10 ON STREAMING N11: The omnichannel e-Commerce revolution by Dirk Pinamonti (Nexi Payments)								
09.45-10.00	ROOM N10 ON STREAMING N11: Taking Machine Learning to the Next Level by Giovanni Galloro (Google)								
10.00-10.15	ROOM N10 ON STREAMING N11: Re-designing an API to reach global scale by Stan Polu (Stripe)								
10.30-11.10	ROOM N10: The Power of the Paradigm by Douglas Crockford				ROOM N11: Billion-Dollar Foresight by Richard Feldman				
11.10-11.30	COFFEE BREAK								
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					11.30-17.50		11.00-15.00		
					Nexi Lab		Kriu Lab		

<Agenda Saturday, April 14/>									
8:30-09:50	DOORS OPEN								
09:50-10:00	ROOM N10 ON STREAMING N11: OPENING BY CODEMOTION								
	KEYNOTES								
10.00-10.15	ROOM N10 ON STREAMING N11: OpenTech AI for everyone - how to train, deploy and scale DeepLearning models using Keras, Tensorflow and Apach by Romeo Kienzler (IBM)								
10.30-11.10	ROOM N10: More than a Game by Amie Dansby				ROOM N11: My accidental 36 years in video games by Jeff Minter				
11.10-11.30	COFFEE BREAK								
	Room N10	Room N11	Room N1	Room N3	Room N5	Room N12	Room N13	Room N14	Room DS1
11.30-12.10	<div>#AI/MACHINE LEARNING And Then There Are Algorithms Danilo Peccia (Amazon Web Services) Language: English - Level: Intermediate In machine learning, training large models on a massive amount of data usually improves results. Our customers report, however, that training such models and deploying them is either operationally prohibitive or outright impossible for them. We created a collection of machine learning algorithms that scale to any amount of data, including k-means clustering for data segmentation, factorization machines for recommendations, time-series forecasting, linear regression, topic modeling and image classification. This talk will discuss those algorithms, understand where and how they can be used.</div>	<div>#CLOUD/SERVERLESS Hop on the serverless adventure Simona Cotin (Microsoft) Language: English - Level: Intermediate Serverless is the new black - I can deploy my application to the cloud without ever worrying about infrastructure. We all remember the days when we had to spend hours and hours configuring and debugging web servers when all we wanted was to just code and test our app. Those days are long gone and it's time for us to untlearn how to provision and manage infrastructure while focusing on building and scaling applications.</div>	<div>#FRONT-END DEV What Service Workers can do Maurizio Mangione (Accenture) Language: Italian - Level: Intermediate Le Progressive Web App sono un insieme di tecnologie che permettono di implementare comportamenti prima possibili solo nelle applicazioni mobile native. Il cuore delle PWA sono i Service Worker, la feature della piattaforma web più interessante e rivoluzionaria dall'uscita delle chiamate AJAX. Durante questo talk scopriremo i segreti dei Service Worker, quello che possono fare e come utilizzarli ora in produzione.</div>	<div>#CLOUD/SERVERLESS Heroku: build, run and scale applications on a real polyglot platform Nino Guarnacci (Salesforce) Language: Italian - Level: Intermediate Tour organizzato tra le verdi colline di Heroku attraverso le numerose funzionalità ed opzioni di stagione offerte da questa piattaforma PaaS 100% Salesforce Cloud, costruita dagli sviluppatori per gli sviluppatori Java, Python, Node, .Net, un trekking impegnativo, ma un Getting Started Avanzato per uscire dall'aula ed essere in grado di installare, gestire e scalare una applicazione pubblica, gratuitamente su Heroku, e sbalordimento integrare add-on aggiuntive come Mongo, PostgreSQL e Salesforce cliccando sul bottone sbagliato. Sulla via del ritorno Pipeline e Monitoraggio attivo.</div>	<div>VISIT OUR GAME DEV & VR SHOWCASE!</div>	<div>#DEVOPS/CONTAINER Taming a beast - Bol.com's journey from deploying once a month to more then once a day Mike Cheverev (Bol.com) Language: English - Level: For everyone Deploying your application whenever you want is easy. Everyone does it nowadays. And that works great when you have a small group of people responsible for an application. But what if you have several teams working on the same application? What if you have almost 80 people committing more than 30 times a day? Can you face the challenge of deploying that application as often as you wish and succeed in keeping it stable? Bol.com did it. In this talk we will walk the journey of bol.com from conservative four week release cycle to full autonomy. What are the challenges we faced, how we tackled them.</div>	<div>#GAME DEV Vitruvian Game: a new way to learn how technologies work Paolo Moro (Bunsel.it srl) Samuele Chiosso (Business Research Srl) Language: Italian - Level: Intermediate General description of the project and how INTEL invited me to participate. Show some videos and photos during the construction phase and talk about the specific technologies: MSI Backpack VR with Unreal Engine, Arduino and INTEL, TinyML Board, Motor Automation PLC, Driver and connection with joystick from CNC 3D application Error, beta phase and problems solved. Talk about the upgrade and how the use of the main patterns related to microservices have helped us overcome them. #Kubernetes #OCIUA #IoT #Industry40</div>	<div>#ARCHITECTURES A Journey in the API Economy Riccardo Pulcini (Sopra Steria) Language: Italian - Level: Intermediate We present our excursion in collaboration with one of our main customers in the development of a new environment dedicated to the management and sales of API. The main objective of this project is to enable the services exposed by the customer in his internal architecture to the growing world of the "start up" using the Awany API Gateway and the microservices architecture. We will discuss the difficulties encountered and how the use of the main patterns related to microservices have helped us overcome them.</div>	<div>#INSPIRATIONAL The fake problem with hiring Juniors Berta Devant (Novoda) Language: English - Level: For everyone There is a common misconception that junior developers are a burden and won't be delivering value for the first months or even years. Yet, observing my own contributions, I realised how my insights were useful for my team from day one. Working with agile methodologies, using pair programming and code review, you can contribute to your team, deliver value and learn on the job. In this talk I will try to explain why hiring Juniors makes business sense for your company and/or team and how to properly get the most out of every team member no matter their level of experience.</div>
12.30-13.10	<div>#AI/MACHINE LEARNING Use Machine Learning in your code, without being a ML expert Alfredo Morresi (Google) Language: English - Level: Intermediate Using Google Cloud AutoML to automatically train models on your custom data? Yes, and we can go deeper, exploring how to add image classification, speech recognition, video labelling and other machine-learning powered tasks to your code, without a PhD on the matter, thanks to Google solutions.</div>	<div>#SECURITY Data Breaches: Barbarians in the Throne Room Dave Lewis (Akamai Technologies) Language: English - Level: Beginner Often defenders worry about the intangible security problems. Defenders need to concentrate their efforts defending the enterprise by focusing on the fundamentals. Other complex solutions such as patching or system configuration failures lead to system compromise. These along with issues such as SQL injection are preventable problems. Defenders can best protect their digital assets by first understanding the sheer magnitude that a data breach can have on an enterprise. In this talk I review my findings after analyzing hundreds of data breach disclosures as it pertains to what went wrong.</div>	<div>#BLOCKCHAIN Upgrading the Bitcoin protocol Simone Bronzini (Chainside) Language: English - Level: Advanced Due to its permissionless nature, which makes nodes coordination practically impossible, upgrading the Bitcoin protocol preserving backward compatibility can be very hard. This often leads to the development of very complex solutions to very simple problems and, in some cases, limits the freedom to add new features to the Bitcoin protocol. In this talk we will analyze the complexities of such upgrades, basing our analysis on past approaches and how they evolved in time.</div>	<div>#MOBILE Xamarin in real life: our MVP approach Antonio Cacace (NTT DATA Italia) Daniele Lombardi (NTT DATA Italia) Language: Italian - Level: Intermediate Come realizzare mobile app cross-platform massimizzando il riuso del codice? Vi racconteremo pro e contro della piattaforma Xamarin riportando la nostra esperienza nei progetti di digital transformation, con uno sguardo attento sul futuro del mobile development.</div>	<div>#FUNCTIONAL PROGRAMMING Functional Java with Vavr Iván López (Object Computing, Inc.) Language: English - Level: Intermediate Functional is the new buzzword of the last years. Everyone wants to use the more functional and pure programming language. The structured programming and object oriented programming now belong to the past. In this talk you'll learn how to write your Java code in a more functional way using the Vavr library (formerly known as Javaslang). Don't worry because I won't talk about monads, functors and all those buzzwords related to functional programming. Everything will be practical examples that you can use in your daily work.</div>	<div>#FRONT-END DEV Node.js Native AddOns from zero to hero Nicola Del Gobbo (Packty) Language: English - Level: Intermediate This talk is about creating Node.js interfaces for native libraries written in C or C++. It starts with various situations in which you need to build native addons and the common problems in doing that. I'll discuss the reference provided by the new N-API (Node-API) that helps maintainers to support a wide variety of Node.js releases without needing recompilation or abstraction layers. With all these tools and knowledge I'll show you how to build some addons from scratch and how to convert existing addons using the new N-API. The last part is related to future developments about addons.</div>	<div>VISIT OUR GAME DEV & VR SHOWCASE!</div>	<div>#FRONT-END DEV A think, a saga and an epic walk into a bar... Artur-Iulian Daschevici (Birdie) Language: English - Level: Intermediate Today managing state in react apps is a bit all over the place. We have multiple ways of doing things but the flexibility is both good and overwhelming. What are the differences and similarities between the big players out there? Thanks to Sagas vs Epics.</div>	
13.10-14.10	TAKE YOUR CODEMOTION LUNCH BOX								
14.10-14.50	<div>#MICROSERVICES Building and evolving microservices: lessons from the frontlines Ilias Bartolini (ThoughtWorks) Language: English - Level: Intermediate In the last 6 years I've been involved in building, evolving and running in production IT systems based on the microservices architectural style. I've had the privilege to be in one of the early teams within ThoughtWorks adopting this architectural style. Along the way I took part as developer and tech lead in multiple projects, across various technological stack and industries, witnessing failures and successes. This talk is a collection of tips and lessons learned from the frontlines.</div>	<div>#DEVOPS/CONTAINER Continuous Delivery with Containers: The Good, the Bad, and the Ugly Daniel Bryant (Big Picture Tech) Language: English - Level: Intermediate Implementing a continuous delivery (CD) pipeline is not trivial, and the introduction of container technology to the development stack can introduce additional challenges and requirements. In this talk we will look at the high-level steps that are essential for creating an effective pipeline for creating and deploying containerized applications. Topic covered include: <ul style="list-style-type: none">The impact of containers on CDAdding metadata to container imagesValidating NFR changes imposed by executing Java applications within a containerLessons learned the hard way (in production).</div>	<div>#INSPIRATIONAL Digital Divide "Il mondo è nelle mani di chi ha il coraggio di sognare e di correre il rischio di vivere i propri sogni" Luca Attias (Corte dei Conti) Language: Italian - Level: For everyone L'Italia da anni è in "emergenza digitale". Occorre abolire il digital divide, trasmettere cultura e managerialità digitale a scuola, università, sanità, mondo del lavoro e dare attuazione alle tante norme in tema di digitale. Abbattere il digital divide vuol dire anche porre un argine alla corruzione ed al malaffare. Citando Steve Jobs, occorre sognare, avere la follia di credere in un futuro veramente digitale. Luca Attias da anni evidenzia tutto ciò e cerca di sensibilizzare le platee che lo ascoltano affinché reagiscano e si rendano parte attiva in quest'opera di divulgazione culturale.</div>	<div>#GAME DEV How we manage to get multi platform games with our custom engine Ivan Zorzin (Llamosoft) Jeff Minter (Llamosoft) Language: English - Level: Intermediate A discussion about how to get things done with great potential. We will see which are the major differences about our coding process and methods. Some little insights about our architecture.</div>	<div>#MOBILE Go reactive with Realm and Xamarin Forms Andrea Ceroni (Elio) Language: Italian - Level: Intermediate In this talk I would like to share my experience of using this new mobile database with great potential. We will see which are the major differences compared to SQLite and what makes Realm very fast so as to be called to solve every request. We develop a realtime multiplayer collaborative app starting from scratch, using the latest features introduced by Xamarin Forms to improve the responsiveness. Your viewpoints and bindings for sure will thank you! :)</div>	<div>#SOFTWARE ARCHITECTURES Building a multi-tenant application using 45,000 databases Henry Been (Henry Been Consultancy) Language: English - Level: Advanced To create an application that is truly designed for massive scale, scale-out at every level of the solution is needed. While doing so at the services level, many developers are still using a single database to serve every request. In response to this, a new pattern, database-per-tenant, is emerging. In this pattern, all data is distributed over a large number of databases. In this session Henry will explore this pattern in detail, covering its advantages and disadvantages and a number of common scenarios around such an architecture.</div>	<div>#INSPIRATIONAL Yes, your site can (and should) be accessible: Lessons learned building FT.com Laura Carvajal (The Financial Times) Language: English - Level: Intermediate In 2015, the Financial Times launched a new version of its website to great success. It broke ground on key areas like performance, resilience and usability. But one day the team that created the site realized they had largely forgotten to measure one thing: accessibility. And you can't improve what you don't measure. In this talk we will go over how the FT.com team introduced accessibility and our journey from being generally oblivious about accessibility to making it a core part of our process across multiple divisions.</div>	<div>#REACTIVE PROGRAMMING Make RxJS and Node dance - how reactive programming can help in asynchronous non blocking environments Enrico Piccinini (ThoughtWorks) Language: English - Level: Beginner Dealing with asynchronous non blocking processing has always been the norm in JavaScript and now is becoming popular in many other contexts. Bad luck benefits, e.g. efficient use of resources, come at cost of increased complexity. Over time the community has found ways to address such complexity we all started with "callback", then came Promises, now async/await. Recently another kid has come to town, Reactivex/RxJS. In this talk we can see how a real-world use case has found an effective solution leveraging Node efficiency with elegant functional style programming via RxJS and Observables.</div>	<div>#SECURITY Are you using an opensource library? There's a good chance you are vulnerable... Bruno Bossola (Meterian) Language: English - Level: Beginner Do you remember Equifax? How did someone manage to steal the data of almost 200 million users? Well, Equifax simply fell victim to a vulnerability on a framework, Struts, which older developers like me remember well. But you folks, who now use cooler things like Guava or Jackson, do you feel safe? Unfortunately, you are not. After a clear introduction to the problem, with a couple of other illustrious examples, we will perform a couple of exploits together. Live, and then take a look at possible prevention strategies. This talk will open your eyes to a problem you did not know you had.</div>
15.10-15.50	<div>#CLOUD/SERVERLESS The serverless full stack Glynn Bird (IBM) Language: English - Level: Intermediate Serverless frameworks are the logical end-game of the microservices movement - deploy single functions where a cloud provider runs them for you "as a service". Find out how you can use serverless functions from Lambda and OpenWhisk to replace fixed infrastructure and allow you to build serverless full-stack applications.</div>	<div>#DEVOPS/CONTAINER Managing your Black Friday Logs Antonio Bonuccelli (Elastic) Language: English - Level: Intermediate Monitoring an entire application is not a simple task, but with the right tools it is not a hard task either. However, events like Black Friday can push your application to the limit, and even cause crashes. As the system is stressed, it generates a lot more logs, which may crash the monitoring system as well. In this talk I will walk through the best practices when using the Elastic Stack to centralize and monitor your logs. I will also share some tricks to help you with the huge increase of traffic typical in Black Fridays.</div>	<div>#AI/MACHINE LEARNING Deep Learning for Machine Translation: a paradigm shift Alberto Massidda (SourceSense) Language: Italian - Level: Advanced In beginning there was the "rule based" machine translation, like Babelfish, that didn't work at all. Then came the Statistical Machine translation, powering the like of Google Translate, and it was good. Nowadays, it's all about Deep Learning and the Neural Machine Translation is the state of the art, with unmatched translation fluency. Let's dive into the internals of a Neural Machine Translation system, explaining the principles and the advantages over the past.</div>	<div>#GAME DEV Commodore 64 Mon Amour(3): disassembling the camel. Reversiamo insieme un gioco del C64 Andrea Feritto (Codemotion) Massimiliano Agostinelli (Cygate) Language: Italian - Level: Intermediate In questa terza puntata dedicata al Commodore 64 ci dedichiamo al reverse engineering di AMC e cioè "Attack of the mutants camels". Il classico spiritello del grande Jeff Minter pubblicato nel 1983. Smanetteremo insieme il cammello pezzo per pezzo utilizzando le tecniche proprie della prateria d'un tempo ma usando strumenti moderni, raccontando storie, aneddoti e chiacchiere del codice, rigorosamente assembly del glorioso 6502.</div>	<div>#FRONT-END DEV Sweet Web Animations API Rodolfo Dias (Outfitry) Language: English - Level: Intermediate We'll figure out how awesome is the web platform and how fast it's evolving. Back in the days, we used flash to make powerful animations, then the platform evolved and we had the power in the hands to make animations using JS libraries to make it a bit easier. Now you can simply do it using this sweet dream called Web animations API. I'll provide you a bunch of interfaces and power to create lovely animations in applications. Well try it and feel the sweet taste :)</div>	<div>#DESIGN/UX More than colors and white spaces - designing enterprise applications Tina Rauschenbach (SAP SE) Janina Schuydt (SAP SE) Language: English - Level: For everyone Designing good applications is complex, involves analytical and creative thinking, as well as a lot of tedious, but necessary work. Defining a design language that cares about end users and empowers designers to create appealing and intuitive apps - while covering business needs and ensuring consistency - is a major challenge. We will share our insights and best practices based on our own journey to prevent these exploits.</div>	<div>#MOBILE Imagine your Cell Phone is Stolen: What happens to the data stored in your apps? Christiane Goebels (SAP SE) Language: English - Level: Intermediate On my god, your cell phone is stolen! And along with it, the brand new (hybrid) mobile application you have developed, storing all the sensitive data on the device! But you can relax - you have taken all imaginable precautions to secure the application, and have made it impossible for the thief to get through to your data. Or have you? This talk will shed some light about possible exploit strategies for hybrid (and native) applications on Android and iOS as well as the corresponding methods to prevent these exploits.</div>	<div>#FUNCTIONAL PROGRAMMING Monads Explained for OOP Developers Mikhail Shilkov (Astrata Europe) Language: English - Level: Beginner Are you curious about functional programming concepts, but daunted by its weird vocabulary? Have you heard of Monads, but struggled to understand what they are? Should you care at all? In this session I will explain Monads using Java and C# classes. I'll start with Why part, and then will give enough of clear and concise examples that you will be able to bring home and start using in your functional journey. Functional programming is not complicated, it's just unfamiliar. Let's bring some clarity today.</div>	<div>#VR/AR Augmenting the reality of education for the 21st century Richard Lewington (University of Cambridge - Plain Concepts) Language: English - Level: For everyone In less than 50 years we have seen massive changes in the classroom. From chalkboards to whiteboards, the introduction to computers to interactive whiteboards, and now the implementation of Augmented Reality. But how much learning value can AR offer students beyond the "wow factor"? Are we just rehearsing old teaching methodologies and redressing them up with the latest technology? Or should we be exploiting AR's potential as a tool rather than just another medium? Richard Lewington explores these questions and what we should be doing about it.</div>
15.50-16.20	NETWORKING COFFEE								
16.20-17.00	<div>#SOFTWARE ARCHITECTURES The Art of Technical Decision Making Duana Stanley (Freelance) Language: English - Level: For everyone Making decisions by yourself is hard, let alone with a team. As developers, making good technical decisions in teams is key to our jobs yet we don't explicitly learn how to do that. As someone who has found technical argumentation difficult, I have been thinking about this topic for years: argumentation in teams should not be about winning and losing. I will introduce a framework teams can use to evaluate options and find consensus when making big technical decisions, with an example.</div>	<div>#BLOCKCHAIN Byzantine generals! How the blockchain solves the distributed consensus problem Federico Squarini (Spidchain) Language: English - Level: For everyone The major contribution of the Blockchain technology, is providing a solution to the problem of consensus in distributed systems. But not every distributed consensus platform is a blockchain! I will introduce the problem of consensus, its various forms, the concept of proof of work and alternative mechanisms like proof of stake. There will be also a live game where participants will play the miners and have fun validating transactions!</div>	<div>#LANGUAGES Coding Gym: divertirsi e migliorarsi a colpi di algoritmi Marco Arena (Ferrari) Language: Italian - Level: Beginner Coding Gym è un formato di incontri tecnici basato sulla risoluzione di coding challenges che ho ideato per il miglioramento continuo e che dal 2016 implemento mensilmente all'UCV di Modena. Dopo un breve racconto dei suoi punti chiave, mostrerò alcuni esempi di esercizi che risolveremo assieme. Il mio obiettivo è trasmettervi un mindset che vi permetta di massimizzare le opportunità di crescita celate dietro un qualsiasi esercizio. Anche un banale "calcola la somma di una sequenza di numeri" vi darà nuovi spunti e idee per migliorare.</div>	<div>#REACTIVE PROGRAMMING Rx.NET, from the inside-out Stas Rivkin (Codevalua) Language: English - Level: Intermediate Writing a truly non-blocking, maintainable code shouldn't be a giant headache. As developers we strive to write features bundled up into a single, readable and testable block of code and today's technologies greatly help us. From .NET events to Task Parallel Library, we can craft complex features. But, unfortunately, having that many different technologies, we lack the possibility of composing (easily) between them. In this session, you will learn about the core fundamentals which construct the Rx API and how it provides a single, uniform language that abstracts away all sources of events.</div>	<div>#GAME DEV "That doesn't seem to work" - A puzzle design cheat sheet for point-and-click adventure game designers Christopher Sacchi (Leaflog Games) Language: English - Level: For everyone Some do's and don'ts for point-and-click adventure game designers. A quick tour of the types of puzzles found in some of the past and present point-and-click adventure games and how they merge with gameplay and storytelling. Beyond nostalgia, and with a glance at new technologies, this talk aims to suggest a way to avoid some of the design mistakes of the past and generate new ones, so to foster new solutions.</div>	<div>#INSPIRATIONAL Anxiety Driven Development Nicola Bartolini (Ideato srl) Language: Italian - Level: For everyone Experience anxiety while working isn't a rare condition. The lump in your throat, stiff neck, weak knees, sweaty hands... what to do? There's an escape from this paralyzing sentiment! In this talk we'll know the difference between stress and anxiety and how to deal with anxiety at work (and in life too). Tips to control breathing and some other little magic tricks to empower ourselves and overcome anxiety. As a plus, I'll show you how a person with anxiety can be a speaker at conferences and survive!</div>	<div>#VR/AR WebXR: Introducing Mixed Reality and the Immersive Web Peter O'Shaughnessy (Samsung) Language: English - Level: Intermediate WebXR is the API formerly known as WebVR, upgraded to embrace the web's potential, not just for Virtual Reality, but for immersive Mixed Reality experiences. We can start exploring the possibilities now, using libraries like Mozilla's WebXR Polyfill and Google's three.js, plus special development browsers that incorporate ARCore (Android) or ARKit (iOS). This talk will show how you can begin to blend the real world and the digital world as a Mixed Reality web developer - and a glimpse into the exciting future of the Immersive Web.</div>	<div>#LANGUAGES What Haskell taught us when we were not looking! Eric Torreborre (Zalando) Language: English - Level: Intermediate Haskell, the pure and lazy functional programming language, has now been around for more than 25 years. It had a profound influence on many other programming languages on the JVM, Java, Clojure and Scala. You will also get a glimpse of the features which are yet to be transferred for our greatest benefit. Warning: after this talk you might be tempted to try the real thing!</div>	<div>Finish your Codemotion's GAME and get your Special Prize!</div>
17.20-18.00	ROOM N10 ON STREAMING N11: There is no such thing as luck by Matteo Collina								
18.00-18.20	ROOM N10 ON STREAMING N11: CLOSING BY CODEMOTION & LOTTERY								

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