Research Intern Traitor Tracing

Why join Irdeto?

It’s an exciting place to be! Media entertainment is changing at Internet speed. At the heart of it, it’s enjoying your favorite movies, TV shows and sports on any device, any time you want. And Irdeto is making this a reality for consumers around the world. We protect content for major studios, sports rights holders and content providers to make high-value content available on any screen. We help operators create a TV experience that’s personalized and engaging. And you can take part in shaping the future of media entertainment, starting today.

CTO Research

Our global CTO group is a highly innovative team who picture future technology and make it happen. Our research on new technology supports existing products and generates new business opportunities. We coordinate the standardization activities in the company and obtain legal protection for our new technology.

Traitor Tracing

One of the most effective attacks against a watermarking system is to perform a collusion attack, in which multiple, differently watermarked, input signals are combined to form an output signal. This output signal will typically still have a watermark sequence embedded, but this is no longer one of those sequences that was embedded by the tracer. Irdeto has a traitor tracing solution that, given a long enough output sequence, is able to identify the colluders.

The current system focuses on a single channel being attacked. In reality, colluders often attack multiple (if not all) available channels simultaneously. The goal of this project is to develop a holistic approach to such an attack, rather than looking at each channel individually.

Research question:

One of the key assumptions is that the colluders have a limited set of identities (each able to get an input signal), that they need to spread out amongst the channels that they want to attack.

The student is expected to create a working model of such an attack, and to investigate how to use the single-channel tracing data more efficiently to trace the colluders.

Required expertise

- Data analysis
- Statistics

What do we offer you?

At Irdeto, we know that our success results from our globally diverse workforce. You will find teams of outstanding people working on our wide range of solutions and services that shape the future of
media entertainment.

Irdeto offers the freedom to work in exciting environments that best suit your skills and ambitions. We encourage personal and professional growth and success among all employees with:

- Flexible working spaces in state of the art offices
- A focus on collaboration, creativity, health and happiness
- Working for a truly global company with offices in 25+ countries

With more than 45 years of business innovation behind us, Irdeto is a solid company that recognizes that it is the people who make our company a success.

We are looking for people who are energetic, dynamic and driven to be part of our global community. Welcome to Irdeto!