25. Advanced Carbon Capture Technologies

Researcher: Lauren Solin
Development Stage: Proof of Concept
TCD Contact: John Whelan

Solin has developed a new approach to the storage of CO2 that involves the transformation of carbon dioxide into solid phases, which can then be stored underground. The technology is designed to be scalable and cost-effective, and involves a series of steps including the capture of CO2 emissions, its conversion into a solid phase, and the subsequent disposal underground.

26. Wireless Cutting Tool Force Measurement

Researcher: Anders Jonsson
Development Stage: Commercialisation
TCD Contact: John Whelan

The Wireless Cutting Tool Force Measurement technology allows for the monitoring of the force applied during cutting processes, which is crucial for optimizing the performance of cutting tools and reducing the risk of tool breakage. The system can be deployed on site or in the lab, and is designed to be easy to use and cost-effective.

27. Waste-Water Distribution Device

Researcher: Lawrence Gifford
Development Stage: Proof of Concept
TCD Contact: Michael Pennan

The Waste-Water Distribution Device is a new invention designed to improve the efficiency and effectiveness of waste-water distribution systems. The technology involves the use of advanced sensors and data analytics to monitor and control the flow of waste-water, reducing the risk of leaks and other issues. The system can be applied to a wide range of applications, including industrial waste-water management and urban waste-water networks.

28. Cipher Docs – Secure Cloud Documents

Researcher: Robert Tarrant
Development Stage: Product Development
TCD Contact: John Whelan

Cipher Docs is a new cloud-based document management system that offers secure, encrypted storage and sharing of sensitive documents. The technology uses advanced encryption algorithms to protect data from unauthorized access, and includes features such as user access control and audit trails. The system is designed to be scalable and can be used by organizations of all sizes.

29. Kongreso – Conference Programme

Researcher: Brian Vaughan
Development Stage: Product Development
TCD Contact: John Whelan

Kongreso is a new technology that uses artificial intelligence to automatically identify and categorize conferences and events, based on the nature of the conference agenda and the topics being discussed. The system uses a combination of natural language processing and machine learning algorithms to automatically identify similar talks and sessions, and provides a personalized view for each individual user.

30. Math Blocker

Researcher: Brendan Targan
Development Stage: Proof of Concept
TCD Contact: John Whelan

Math Blocker is a new technology that uses AI to prevent students from accessing math-related websites while they are online. The technology works by intercepting requests to listed websites and diverting the user to a math-learning website where they can learn math concepts in a more engaging and meaningful way. The system can be used in conjunction with standard math programs to help students improve their math skills, and can be deployed in schools and other educational settings.

31. Reduction of Wireless (OFDM) Interference

Researcher: Lauren Solin
Development Stage: Proof of Concept
TCD Contact: John Whelan

OFDM is a widely used technology for wireless communication systems, but it can suffer from interference from adjacent systems. Math Blocker is a new technology that uses AI to prevent students from accessing math-related websites while they are online. The technology works by intercepting requests to listed websites and diverting the user to a math-learning website where they can learn math concepts in a more engaging and meaningful way. The system can be used in conjunction with standard math programs to help students improve their math skills, and can be deployed in schools and other educational settings.

32. Out of Band Interference Reduction

Researcher: Lauren Solin
Development Stage: Proof of Concept
TCD Contact: John Whelan

OFDM is a widely used technology for wireless communication systems, but it can suffer from interference from adjacent systems. Math Blocker is a new technology that uses AI to prevent students from accessing math-related websites while they are online. The technology works by intercepting requests to listed websites and diverting the user to a math-learning website where they can learn math concepts in a more engaging and meaningful way. The system can be used in conjunction with standard math programs to help students improve their math skills, and can be deployed in schools and other educational settings.

33. TAPATO – voice technology for pilot training

Researcher: Brian Vaughan
Development Stage: Proof of Concept
TCD Contact: John Whelan

TAPATO is a new technology that uses AI to prevent students from accessing math-related websites while they are online. The technology works by intercepting requests to listed websites and diverting the user to a math-learning website where they can learn math concepts in a more engaging and meaningful way. The system can be used in conjunction with standard math programs to help students improve their math skills, and can be deployed in schools and other educational settings.

34. Emiror

Researcher: Sinead Lawless
Development Stage: Proof of Concept
TCD Contact: John Whelan

Emiror is a new technology that uses AI to prevent students from accessing math-related websites while they are online. The technology works by intercepting requests to listed websites and diverting the user to a math-learning website where they can learn math concepts in a more engaging and meaningful way. The system can be used in conjunction with standard math programs to help students improve their math skills, and can be deployed in schools and other educational settings.