1. Humanising Things
redjets

Automated tweets from Red Funnel RedJets. Contact us @RF_Travel_News.

By @andysc

📍 Southampton, UK

redfunnel.co.uk

Joined March 2008

Tweets

228K

FOLLOWING

3

FOLLOWERS

483

Who to follow

- @CassiniSaturn
- @MikeEdwards
- @T_Rob

Who to follow

- @RF_Travel_News
- @redfunnel_co
- @redjets

Popular accounts

- Find Friends

United Kingdom Trends

- #EyeExperience
- #Promoted by HTC UK
- Eidelna
- #ItmACeleb
- #TextSanta24
- #dreamermsg
- #Ritchy
- #CameronMustGo
- #CyberMonday
- Art and Dec
- Jimmy Bullard

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Tower Bridge
@twbrdg_hsef

But that lts you know when Tower Bridge is opening or closing. Not in any way official, photo from tinyurl.com/32blmc

London
tinyurl.com/32ksm
Joined February 2006

Tweet to Tower Bridge

7 Followers you know

Tweets

Tower Bridge @twbrdg_hsef · Apr 10
I am closing after the MV Dixie Queen has passed down riverstream.

Tower Bridge @twbrdg_hsef · Apr 10
I am opening for the MV Dixie Queen, which is passing down riverstream.

Tower Bridge @twbrdg_hsef · Apr 10
I am closing after the MV Dixie Queen has passed up riverstream.

Tower Bridge @twbrdg_hsef · Apr 10
I am opening for the MV Dixie Queen, which is passing up riverstream.

Tower Bridge @twbrdg_hsef · Apr 8
I am closing after the J.R. Tolkien has passed down riverstream.

Tower Bridge @twbrdg_hsef · Apr 8
I am opening for the J.R. Tolkien, which is passing down riverstream.

Who to follow

Amazon UK · Followed by Paul Fournier and others
T Rob · Followed by Nicola Hills and others
EVERYTHING · Followed by thingmonk and others

United Kingdom Trends

#EyeExperience
Promoted by HTC UK
Edwina
#imACeleb
#TextSanta24
#DreamXmasGIF
Tinchy
#CameronMustGo
#CyberMonday
Art and Dec
Jimmy Bullard

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Head for the hills! I'm driving towards these hills on Mars to do geology work & also search for clouds.
Thank you, @ESA_Rosetta! I did it! I became the first spacecraft to land on a comet & study it! But it’s not over yet… #CometLanding
Hello @ESA_Rosetta! I'm awake! How long have I been asleep? #Lifeonacomet
VISUAL SYSTEM: CCD 517.3
ARTIFICIAL INTELLIGENCE SYSTEM: K177
MACHINE IDENT: TALKIE TOASTER
MANUFACTURER: TAIWAN
RECOMMENDED RETAIL PRICE: $19.99 PLUS TAX

CRAPOLA Inc.
2. Seamlessness vs Seamfulness
Ubiquitous computing names the third wave in computing, just now beginning. First were mainframes, each shared by lots of people. Now we are in the personal computing era, person and machine staring uneasily at each other across the desktop. Next comes ubiquitous computing, or the age of calm technology, when technology recedes into the background of our lives.

Mark Weiser, Xerox PARC, 1988
Seamfulness, with beautiful seams
Motion Sensor: You know, I think he’s gone out. It’s been quite a while.
Gatekeeper: I’ll just send him a note and see...
Gatekeeper: Yup. He says he’s out for a while and we should clean
Dishwasher: Okay cool. I’m going to start cleaning now.
Scooba: I’d like to clean to. But Roomba normally goes first.
Roomba: I’m okay, I cleaned earlier this morning.
Scooba: Okay, cool. I’m going to start cleaning now too.
Upstairs lights: Right, I’m going to turn off the lights up here until he’s back.

Tom has entered the Abbey Street Chatroom

Tom: Everything okay?

Gatekeeper: No problems to report. Everyone’s happy...
3. Getting Things Talking
MQTT  CoAP  HTTP

DDS  XMPP  AMQP
A hypermedia catalogue format designed for exposing information about IoT assets over the web.
[{
  "item-metadata": [
    {
      "rel": "urn:X-tsiot:rels:isContentType",
      "val": "application/vnd.tsiot.catalogue+json"
    },
    {
      "rel": "urn:X-tsiot:rels:hasDescription:en",
      "val": "all sensors in deployment"
    }
  ],
  "items": [
    {
      "href": "/examples/sensors/powermonitor.json",
      "i-object-metadata": [
        {
          "rel": "urn:X-tsiot:rels:isContentType",
          "val": "application/vnd.tsiot.catalogue+json"
        },
        {
          "rel": "urn:X-tsiot:rels:hasDescription:en",
          "val": "power monitor"
        }
      ],
    },
    {
      "href": "/examples/sensors/temperaturemonitor.json",
      "i-object-metadata": [
        {
          "rel": "urn:X-tsiot:rels:isContentType",
          "val": "application/vnd.tsiot.catalogue+json"
        },
        {
          "rel": "urn:X-tsiot:rels:hasDescription:en",
          "val": "temperature monitor"
        }
      ]
    }
  ]
}]
4. Talking to Computers
“What is your favourite bat?”
"Hu was the premiere of China until 2012"
5. A Conversational Internet of Things
Conversational Sensing

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Abstract

Recent developments in sensing technologies, mobile devices and context-aware user interfaces have made it possible to represent information fusion and situational awareness as a conversational process among actors — human and machine agents — at or near the tactical edges of a network. Motivated by use cases in the domain of security, policing and emergency response, this paper presents an approach to information collection, fusion and sense-making based on the use of natural language (NL) and controlled natural language (CNL) to support robust forms of human-machine interaction. The approach uses a conversational protocol to facilitate a flow of collaborative messages from NL to CNL and back again in support of interactions such as: turning eyewitness reports from human observers into actionable information from both trained and untrained sources; fusing information from human and physical sensors (with associated quality metadata); and assisting human analysts to make the best use of available sensing assets in an area of interest (governed by management and security policies). CNL is used as a common formal knowledge representation for both machine and human agents to support reasoning, semantic information fusion and generation of rationale for inferences, in ways that remain transparent to human users. Examples are provided of various alternative styles for user feedback, including NL, CNL and graphical feedback. A pilot experiment with human subjects shows that a prototype conversational agent is able to gather usable CNL information from untrained human subjects.

*Initial version of "Conversational Sensing" in Four Generations AII, SPIE DIS 2014. Send correspondence to Preece@cs.cardiff.ac.uk
Data sources → Analytic services → Decision maker
there is a thermometer named t1 that is located in the room r1
the thermometer t1 can measure the environment variable temperature
there is a radiator valve v1 that is located in the room r1

the radiator valve v1 can control the environment variable temperature
the room r1 has the environment variable temperature that can be measured and that can be controlled
the environment variable temperature in room r1 has value 21 at time 13:30
for which D1 is it true that
( the device D1 is located in room V1 )
and
( the device D1 can measure the temperature )
and
( the value V1 == "r1" )
the room r1 has the environment variable temperature that can be measured and that can be controlled because the thermometer named t1 is located in the room r1 and can measure the environment variable temperature and the radiator valve v1 is located in the room r1 and can control the environment variable temperature
“The thermometer in the living room has moved to the dining room”

the thermometer t1 is located in the room r2
User : I will be late home tonight.

House : The house will have a state of occupied at 1900

User : Confirmed

House : The room r1 has a temperature with minimum value 20 after time 1900

The roomba vc1 has a clean cycle scheduled for time 1800
User : I will be late home tonight.

House : Sorry to hear that, shall I tell everyone to expect you back by 7?

User : Yes please.

Thermometer : I’ll make sure its warm when you get home

Roomba : *grumble*
@RellyAB & I just watched, proud parents, as our 1 year old Roomba finally managed to get back to its docking station for the first time. ❤️
@ReillyAB & I just watched, proud parents, as our 1 year old Roomba finally managed to get back to its docking station for the first time. ❤️

@PaulAnnett Turns out he was sheepishly heading back to hide in shame, having missed a spot under the table.

10:49 PM - 31 May 2015
Thanks

@knolleary

IBM Emerging Technology Services